

1 people very uncomfortable. There are numerous  
2 co-morbidities that are part of the allergic  
3 condition that are really not amenable to  
4 self-treatment and self-diagnosis, and I firmly  
5 believe that by taking prescriptions and putting  
6 them over-the-counter we will have an increased  
7 incidence of those various co-morbidities.

8 Allergies do not get the respect that they  
9 deserve either. As we mentioned, with the number  
10 of patients who have allergic rhinitis and the  
11 increased incidence of allergic rhinitis we are  
12 seeing an epidemic of this disease and its  
13 co-morbidities. There is a tendency to trivialize  
14 the disease as well. Physicians and other  
15 healthcare providers do not get much training in  
16 allergic disease. I am a Board certified  
17 allergist. In medical school I had one hour of  
18 training in allergies. Fortunately, as I proceeded  
19 in my specialty we got more training. Most doctors  
20 don't even look in the nose, and most patients are  
21 extremely confused by the many over-the-counter  
22 choices out there. Allergies don't get respect --  
23 "big deal," I hear that all the time. What is so  
24 important about a runny nose? And the media  
25 doesn't help by portraying allergy sufferers as

1 wimps. Yet, it is clear that allergies cause  
2 millions of days of lost school, lost work and  
3 extreme amount of morbidity. As I said before, the  
4 mortality isn't due to the runny nose but it is due  
5 to the co-morbidities, especially bronchial asthma.

6 Allergy sufferers have co-morbidities --  
7 asthma, sinusitis, otitis media, urticaria. These  
8 co-morbidities, I believe, are increasing in  
9 incidence and I think part of this problem -- and  
10 we need more data, as you heard earlier -- part of  
11 the reason for the increase in incidence in these  
12 co-morbidities I think is due to self-medication  
13 and lack of physician input into diagnosing and  
14 treating these diseases. We have to stop  
15 trivializing allergies and start treating them more  
16 effectively.

17 The first stop for most allergy sufferers  
18 is the corner drugstore and there is a potpourri of  
19 choices, not just the over-the-counter  
20 antihistamines but the over-the-counter  
21 decongestants, and nasal sprays that are prone to  
22 abuse, and the herbal products. It is a mess out  
23 there. You almost need some form of medical  
24 training to take medicines properly and, believe  
25 me, most of the patients I see in my practice are

1 not taking the medicines properly.

2           It is clear that many patients who have  
3 allergies take just over-the-counter medicines.  
4 Forty percent of allergy sufferers take  
5 over-the-counter medicines only, and with the  
6 complications of inflammation we are seeing, we are  
7 seeing an increased incidence of the various  
8 co-morbidities.

9           Another interesting statistic, although  
10 20-30 percent of the population has some form of  
11 allergic disease, upwards of 75 percent think they  
12 have some form of allergic disease and often  
13 self-medicate and often incorrectly. The  
14 doctor-patient relationship is crucial for the  
15 diagnosis and treatment of allergies. I strongly  
16 disagree with the Blue Cross/Blue Shield people who  
17 say that you can self-diagnose and then self-treat  
18 allergic disease. This is simply not true, and I  
19 believe has led to the inflammatory cascade where  
20 there are more co-morbidities and complications. I  
21 strongly object to the FDA's comments that, quote,  
22 allergic rhinitis and related conditions are  
23 generally amenable to self-diagnosis and  
24 self-treatment. This is plain wrong. It is bad  
25 healthcare philosophy. It is bad medicine.

1           Finally, I ask my patients in my office a  
2 little bit about this conversion. Well, first I  
3 had a near riot because they were very upset about  
4 it and, in very unscientific survey, I asked a  
5 hundred consecutive patients what it would do to  
6 them. Well, 98 of them were extremely upset and,  
7 yes, it would affect them in their pocketbook but,  
8 more importantly, it would affect them in their  
9 quality of life if they don't have ready access to  
10 these medications. They couldn't afford these  
11 important medications for treating their allergies  
12 if they weren't covered by a prescription plan, and  
13 they simply can't afford not to take them. Thank  
14 you.

15           DR. BRASS: Thank you very much. We will  
16 next hear from Dr. Emanuel.

17           DR. EMANUEL: Thank you, Dr. Brass, Dr.  
18 Kelly, members of the FDA. I thank you for the  
19 opportunity to present my views as a practicing  
20 ear, nose and throat allergist.

21           My name is Ivor Emanuel. I am a  
22 practicing ear, nose and throat specialist and  
23 allergist in San Francisco. I am a Clinical  
24 Assistant Professor in the Department of  
25 Otolaryngology at the University of California, San



1 Francisco, and my affiliations also include the  
2 University of California Teaching Hospitals. In  
3 addition, I am a fellow and past president of the  
4 American Academy of Otolaryngic Allergy and  
5 president-elect of the American In Vitro Immunology  
6 Society, and I am a member of the American College  
7 of Allergy, Asthma and Immunology.

8 I have been a consultant and have spoken a  
9 number of times on behalf of all three companies  
10 today, and my participation at this meeting is  
11 supported by Pharmacia Diagnostics.

12 While many issues have been and will be  
13 highlighted by numerous groups prior to and during  
14 the course of this meeting, perhaps one of the most  
15 essential is the importance of an appropriate and  
16 accurate diagnosis of allergy prior to the use of  
17 second-generation antihistamines. The three  
18 second-generation antihistamines under  
19 consideration today have been used safely by  
20 millions of people. There is no question that they  
21 are effective in managing allergy. It is equally  
22 clear that when these drugs are inappropriately  
23 used they are of no benefit to the many millions of  
24 Americans who suffer from non-allergic conditions.

25 Whether prescribed by physicians or not,

1 without an accurate diagnosis many of these  
2 patients will be denied access to other therapies  
3 or approaches that could relieve their suffering.  
4 Therefore, my comments today do not directly relate  
5 to whether or not effects of fexofenadine,  
6 loratadine or cetirizine should be switched from  
7 prescription to over-the-counter status but,  
8 rather, to the crucial issue of establishing a  
9 correct diagnosis prior to their use.

10           The need for this correct diagnosis prior  
11 to the use of antihistamines is highlighted by the  
12 results of a recent study at Ohio State University  
13 colleagues which found that only 35 percent of  
14 patients prescribed a non-sedating antihistamine  
15 for allergy symptoms by a primary care physician  
16 were actually allergic. These findings demonstrate  
17 that a history and physical examination alone is  
18 not always sufficient to distinguish between  
19 respiratory and ocular allergic disease and  
20 symptoms caused by other underlying causes. I  
21 suspect that consumer self-diagnosis would be  
22 associated with a similar low level of accuracy.

23           What may not be apparent today is the ease  
24 with which an allergy diagnosis can be made with  
25 currently available serological diagnostic tests,

1 the ability of family physicians to order them  
2 easily and cost effectively, and the impact these  
3 tests can have in directing the patients and  
4 consumers to the appropriate prescription and/or  
5 over-the-counter options. The use of these tests  
6 have been endorsed by the American Academy of  
7 Allergy, Asthma and Immunology, the American  
8 Academy of Otolaryngic Allergy and the American  
9 Academy of Otolaryngology Head and Neck Surgery.

10 Today, specific IgE blood tests are  
11 available for a diverse range of allergens and  
12 allow for the accurate diagnosis of both indoor  
13 allergens such as dust mites, cats, dogs and common  
14 molds responsible for perennial symptoms, as well  
15 as outdoor allergens such as pollens and certain  
16 molds related to seasonal symptoms.

17 In the past, physicians have been  
18 reluctant to use specific IgE tests due to concerns  
19 regarding accuracy and reliability. The  
20 introduction of the next generation tests, such as  
21 the specific IgE test which exhibits outstanding  
22 performance characteristics, can be used with  
23 confidence in identifying causative agents in  
24 individuals with allergic disease. In addition,  
25 this test is the only specific IgE test to receive

1 FDA quantitation clearance for not only can it  
2 demonstrate with accuracy if patients are allergic,  
3 but it can also determine the extent to which that  
4 patient is allergic. These features, along with  
5 the improvements in laboratory facilities, have  
6 greatly increased the value and availability of  
7 specific IgE testing and have allowed physicians to  
8 undertake allergy diagnoses and, therefore,  
9 appropriate treatment in their patient populations.

10 In summary, a positive allergy result from  
11 a specific IgE test, such as the ImmunoCap makes it  
12 possible to recommend appropriate avoidance  
13 measures for indoor allergies maybe not even,  
14 therefore, requiring an antihistamine, to use a  
15 preventive medication for seasonal outdoor  
16 allergies, and rescue medicines for use as needed  
17 with symptom breakthrough. Greater utilization of  
18 these assays can enhance diagnostic specificity,  
19 improve outcomes inn patients with upper  
20 respiratory and ocular allergies, and avoid  
21 inappropriate use of antihistamines when they are  
22 not needed.

23 I am hopeful that your deliberations today  
24 regarding the appropriateness of second-generation  
25 antihistamines for over-the-counter status will

1 include a discussion of the importance of  
2 establishing an appropriate and correct diagnosis  
3 prior to their use. Thank you very much.

4 DR. BRASS: Thank you. Our next speaker  
5 is Dr. Hussar.

6 DR. HUSSAR: Thank you for this  
7 opportunity to participate. My name is Daniel  
8 Hussar. I am a pharmacist and I am on the faculty  
9 at the Philadelphia College of Pharmacy at the  
10 University of Sciences in Philadelphia. I have  
11 reviewed the guidelines relative to conflict of  
12 interest. I have spoken in programs that have been  
13 sponsored by each of the three companies who are  
14 marketing the products we are considering today. I  
15 declare that I have no conflict of interest.  
16 Indeed, the position I am taking with regard to  
17 these products is different from the one that the  
18 companies are advocating.

19 Six hundred deaths and 47,000 injuries  
20 each year. These are the estimates of the deaths  
21 and injuries occurring each year in the United  
22 States as a consequence of motor vehicle accidents  
23 that have been attributed or related to the use of  
24 nonprescription antihistamines, the antihistamines  
25 that cause sedation and other central nervous

1 system effects. It is well-known and, as has been  
2 previously mentioned this morning, these  
3 antihistamines such as diphenhydramine and  
4 chlorpheniramine cause sedation. Fexofenadine and  
5 loratadine are not likely to cause sedation and  
6 they are often designated as non-sedating  
7 antihistamines. I recognize that this hearing is  
8 also addressing the status of cetirizine, an agent  
9 that is considered to be a low-sedating  
10 antihistamine. Although I can support  
11 nonprescription status for cetirizine, my comments  
12 are limited to fexofenadine and loratadine because  
13 I do not want a debate about the safety of  
14 cetirizine to delay a decision relative to the  
15 switch to OTC status for fexofenadine and  
16 loratadine.

17           The safety of fexofenadine and loratadine  
18 have been thoroughly evaluated. In some studies  
19 dosages far above the usual recommended therapeutic  
20 dose have been utilized for the reason of  
21 demonstrating that these two drugs are not likely  
22 to cause the cardiovascular type problems that  
23 resulted in the withdrawal of terfenadine and  
24 astemizole from the market. I consider the issue  
25 that we are addressing today to be a very serious

1 public safety issue. Many individuals who  
2 experience allergy and/or cold symptoms self-treat  
3 their conditions with a nonprescription product  
4 without visiting a physician. Even though I concur  
5 with the importance of effective diagnosis, that  
6 situation is not going to change. Many consumers  
7 are purchasing these medications without a  
8 prescription.

9           Many of the deaths and injuries mentioned  
10 earlier could be avoided if these individuals could  
11 use products containing the antihistamines that are  
12 associated with the least risk instead of those  
13 that cause sedation. Products containing  
14 fexofenadine and loratadine are available without a  
15 prescription in certain other countries, including  
16 Canada. I am not aware of any significant problems  
17 that have been associated with their OTC use in  
18 those other countries.

19           During the last several years there has  
20 been unprecedented publicity regarding medical  
21 errors, drug-related problems, and the safety of  
22 medications. Fortunately, there is a course of  
23 action that will reduce the risk of death and  
24 injuries resulting from antihistamine-related  
25 accidents, and that is to transfer fexofenadine and

1 loratadine from prescription only to  
2 nonprescription status.

3           Unlike most, if not all, previous  
4 decisions to switch medications from prescription  
5 only to nonprescription status, I would contend  
6 that the issue we are addressing now has life or  
7 death implications for some individuals. This was  
8 not the case, for example, when the histamine H-2  
9 receptor antagonists were switched to  
10 nonprescription status.

11           The need to take action, in my opinion, is  
12 urgent. In my opinion, we do not need more  
13 studies. In my opinion, we do not need to await  
14 the appointment of a new FDA commissioner to take  
15 this action. Appropriate labeling for  
16 nonprescription use can be quickly developed.  
17 There have already been suggestions mentioned. We  
18 already have available resources that would permit  
19 the rapid development of appropriate labeling  
20 through which these agents could be used effective  
21 and safely.

22           I strongly urge these committees and the  
23 Food and Drug Administration to take immediate  
24 action that will permit the nonprescription  
25 availability of fexofenadine and loratadine without



1 a prescription. I recognize that have some  
2 suggested that FDA does not have the authority to  
3 transfer medications to nonprescription status if  
4 the manufacturers do not wish to do so. I would  
5 raise the question if the FDA does not have that  
6 authority, to whom can consumers turn when there  
7 are questions regarding the safety of the  
8 medications that we are using?

9 I think that there are many additional  
10 implications. If, for some reason, there is a  
11 determination or a question that the FDA does not  
12 have the authority, I think legislative action must  
13 be pursued that would provide FDA with that  
14 authority, and to also consider legislation that  
15 would put these specific agents in the OTC  
16 marketplace. If legislation cannot be accomplished  
17 at the federal level on a timely basis, I would  
18 anticipate there would be action at the various  
19 state levels in the interest of public safety. I  
20 don't think these steps are necessary. I feel the  
21 FDA has that authority. I would urge the  
22 committees and the FDA to take this action as  
23 quickly as possible. Thank you for the opportunity  
24 to participate. I appreciate your consideration of  
25 these comments.

1 DR. BRASS: Thank you. Our next speaker  
2 will be Dr. Cutler. If Dr. Cutler is not here we  
3 will move on to Dr. Brocato. I apologize for any  
4 mispronunciations. I should have said that at the  
5 beginning.

6 DR. BROCATO: You did very well.

7 DR. BRASS: Thank you.

8 DR. BROCATO: I am Dr. Frank Brocato. I  
9 am not a clinician. I want to make that statement  
10 right up front; I have a doctorate in another  
11 field. I am representing a coalition. I am not a  
12 consultant. I am the president/CEO of an employer  
13 coalition in Tampa, Florida, and I am here to  
14 address some of these issues from a consumer  
15 employer perspective, if you will.

16 I would like to address the issues of  
17 conflict of interest. I own no stock in any of the  
18 companies. The coalition paid my way here, and I  
19 think the last item is we have, as a non-profit  
20 coalition, at different times received some  
21 unrestricted grants from pharmaceutical and other  
22 companies along with our employers, and they were  
23 unrestricted and all of the decisions were made  
24 executively by the employers themselves and not by  
25 any of the grantors. With that, I will begin.

1           The Coalition of Employers really looks at  
2 value, not just cost. We really are concerned  
3 about cost, quality and customer satisfaction. We  
4 currently have some major concerns over the issue  
5 being evaluated today in terms of a lack of  
6 assurance, as well as a concern on the impact from  
7 a move from prescription to OTC in regard to  
8 medical management of the patients with allergy and  
9 asthma that it will not to us -- this is our lack  
10 of assurance that it will not yield necessarily the  
11 affordability from the patient perspective we are  
12 looking for, nor will it yield the proper clinical  
13 diagnosis or even the selection of appropriate drug  
14 by that particular patient, which is of concern for  
15 those who have chronic allergy and asthma  
16 particularly.

17           We did a two-year study and in that  
18 two-year study we surveyed 23,000 employee  
19 households throughout Tampa Bay. I would like to  
20 share some of the results very quickly. There are  
21 four areas of benefits that the employers  
22 established up front for health care -- faster  
23 recovery from illness, improved quality of life,  
24 increased functional status which was the  
25 preponderance of the survey, and it showed us that

1 the difference between absenteeism, which everybody  
2 has quoted, and impairment by the disease or  
3 therapy at the workplace there was a significant  
4 difference. In fact, of the 17 diseases we looked  
5 at, the impairment at work was 7.5 times greater  
6 than absenteeism.

7 On top of that, when you speak of allergy  
8 there was a 32 times greater impairment in the  
9 workplace than absenteeism, which is significant to  
10 the employer given age and work force and global  
11 competition.

12 On top of that, 26 percent of all those  
13 responding were diagnosed by a physician to have  
14 allergy. Only 5 percent self-diagnosed themselves.  
15 Given that disparity, we have a concern of trying  
16 to shift that 26 percent over.

17 The other is that allergy between  
18 prevalence and the cost a loss of days at work  
19 times 15 dollars an hour wound up being the highest  
20 potential savings of any of the diseases we looked  
21 at in the workplace per 1000 employees per year.

22 The difference between sedative and  
23 non-sedative medications was also looked at. We  
24 found that in the non-sedative medications the  
25 productivity was an average of 600 work days per

1 1000 per year, which is significant to the employer  
2 when we are talking about productivity in the  
3 workplace and we are talking about the overall  
4 health and safety of the employee. And, that is  
5 important to us as employers.

6 I guess in conclusion I would like to just  
7 say that the employers of our coalition, along with  
8 11 of the coalitions throughout the southeast, like  
9 ourselves, are looking at the optimal medical and  
10 pharmaceutical management of allergy and asthma  
11 patients, particularly our employees that we are  
12 paying to do a job. We want them to be functional  
13 when they are at work; have high productivity and  
14 not impact their co-workers because of the burden  
15 of the disease and/or the therapy that is currently  
16 being prescribed, and this is an issue to us.

17 I appreciate so much your time and  
18 allowing this consumer advocate to come up and  
19 present to you. Thank you.

20 DR. BRASS: Thank you. Next we will hear  
21 from Mr. Cloutier.

22 MR. CLOUTIER: Thank you, Dr. Kelly and  
23 members of the committee. My name is Mark  
24 Cloutier. I am the policy director of  
25 RxHealthValue, which is a coalition of consumer

1 groups, labor union, healthcare providers,  
2 employers, health plans, insurers, pharmacy benefit  
3 managers and research institutions, whose mission  
4 it is to improve Americans' access to health  
5 improving drugs.

6 RxHealthValue supports WellPoint's  
7 bringing this petition before the FDA and the FDA  
8 acting in a timely manner. As a general policy,  
9 RxHealthValue supports conversion of prescription  
10 drugs to OTC in those cases where the medication  
11 has low side effect profiles; the condition is  
12 easily recognizable by the patient and treated with  
13 the OTC product; the use of the product or the  
14 medical condition do not require ongoing medical  
15 management such as diagnostic procedures,  
16 laboratory tests or assessments requiring the  
17 technical expertise of a physician; the  
18 benefit-risk ratio is of net benefit to the  
19 patient; there is a low potential for misuse and  
20 abuse; that adequate warnings against inappropriate  
21 use or unsafe use can be written; and the labeling  
22 is understandable at a reasonable reading level.

23 The lack of adverse events captured in  
24 post-marketing surveillance data in the United  
25 States confirms the comparative safety profile of

1 second-generation antihistamines. Moreover, the  
2 experience in Canada, Australia and New Zealand  
3 provides evidence of years of appropriate  
4 understanding and use of these second-generation  
5 antihistamines as over-the-counter products based  
6 on labeling offered by the manufacturers. We  
7 recommend that the FDA consider reviewing the  
8 post-marketing surveillance from these nations and  
9 understand that it is not in your purview actually  
10 to do that by regulation.

11 While the advisory committee does not have  
12 economic review criteria, there have been extensive  
13 comments made by the petitioner, pharmaceutical  
14 company representatives, committee members and  
15 selected public speakers. Frankly, I am a little  
16 concerned about how that is confounding the primary  
17 criteria of safety, and recommend that we turn back  
18 to those criteria.

19 Having said that, RxHealthValue  
20 acknowledges the potential issues raised in  
21 shifting payment arrangements, particularly because  
22 we are a consumer and labor union and  
23 employer-oriented coalition and we are preparing to  
24 respond in a comment to be submitted to the docket.

25 With regard to conflict of interest

1 questions, we do not receive any pharmaceutical  
2 company money. We are prevented from doing that by  
3 our by-laws. We have not been a reviewer of any of  
4 the products. We have not been involved in  
5 research on any of the products. We do have  
6 insurers in our coalition of which Blue Cross/Blue  
7 Shield Association is a member. WellPoint, as a  
8 plan, is not a member of our coalition. I think  
9 that satisfies the conflict of interest questions.

10 Thank you for allowing us to comment.

11 DR. BRASS: Thank you very much. We will  
12 next hear from Dr. Parker.

13 DR. PARKER: Good morning and thank you  
14 for the opportunity to be here. My name is Michael  
15 Parker. I am a practicing physician specializing  
16 in otolaryngology head and neck surgery, and I  
17 practice in Syracuse, New York. I am on the  
18 clinical faculty there at Syracuse. And, I am here  
19 representing the American Academy of Otolaryngic  
20 Allergy, the AAOA, which is a specialty medical  
21 organization. It has about 2200 physicians who  
22 treat ear, nose and throat allergies and other  
23 upper respiratory tract disorders. The AAOA has in  
24 the past received unrestricted educational grants  
25 from all three of the manufacturers in question



1 today.

2           Additionally, as a physician, I  
3 participate as preferred provider with Blue  
4 Cross/Blue Shield. So, I get to experience both  
5 ends of the conflict here. My experience as a  
6 physician, as well as a consultant to Aventis and  
7 Schering, I think allows me to have a unique  
8 perspective here and, hopefully, a balanced  
9 viewpoint.

10           While representing the AAOA, I am here  
11 advocating for the patient's interest. On their  
12 behalf, I strongly oppose the proposed shift of  
13 second-generation antihistamines from their current  
14 status as prescription medications to an OTC  
15 status.

16           The Food and Drug Administration is also  
17 in the business of advocating for and protecting  
18 patients. It is apparent to the membership of the  
19 AAOA that a change in the status of  
20 second-generation antihistamines to OTC status  
21 would be conflicting with one of the underlying  
22 doctrines of both organizations -- to place the  
23 patient's interest first.

24           As physicians with expertise in managing  
25 allergic disease, we feel it is critical to

1 continue to have physicians play an integral role  
2 in the diagnostic and therapeutic decision-making  
3 process of the symptoms of allergies. The  
4 differential diagnoses for nasal congestion and a  
5 runny nose are widespread -- from allergic disease  
6 to bacterial infections to malignant tumors. It is  
7 important to define the cause of the symptoms  
8 before proceeding with prescribing and therapy.

9           In medicine there are abundant situations  
10 in which it is necessary to protect the  
11 well-meaning patient. the relief-motivated patient  
12 from himself. Patient self-diagnosis is not always  
13 a simple process, and the allergic disease is no  
14 exception. By asking the patient to define and  
15 treat their nasal congestion or runny nose you are  
16 asking the patient to differentiate allergic  
17 disease from other disease states. The ability to  
18 differentiate diseases is a skill that physicians  
19 develop after years of education and experience.  
20 By allowing these second-generation antihistamines  
21 to be dispensed over-the-counter more and more  
22 patients will attempt, or worse, be expected to  
23 self-diagnose and treat their symptoms, allergic or  
24 not.

25           While antihistamines may easily treat some

1 patients who suffer from simple allergic disease,  
2 there are a number of variables that must be  
3 considered to successfully manage most patients  
4 with allergies. Second-generation antihistamines  
5 are clearly superior to OTC preparations with  
6 respect to the reduced side effects. This fact  
7 actually contributes to an increase in the  
8 potential for over-use. Self-diagnosed patients  
9 who treat themselves with second-generation  
10 antihistamines inappropriately will find it easier  
11 to remain on the drug. For example, if a patient  
12 did have an upper respiratory viral infection, a  
13 condition which typically resolves spontaneously,  
14 and self-treats with this class of drugs, the  
15 patient would perceive success with the drug and  
16 continue taking the drug erroneously. A similar  
17 situation already exists with another class of OTC  
18 preparation and, indeed, results in a disease state  
19 from overuse. Rhinitis medicamentosa is a  
20 well-documented condition that we see often  
21 resulting from patient self-diagnosing and  
22 prolonged use of topical nasal decongestants.

23 Utilization of second-generation  
24 antihistamines by patients without physician  
25 evaluation may also lead to problems of masking

1 diseases or delaying the diagnosis of more serious  
2 conditions. Diseases such as acute sinusitis,  
3 pathologic obstruction, nasal polyposis, chronic  
4 sinusitis, otitis media or asthma can all exist  
5 with or without or with an allergic component.  
6 Defining which disease is contributing to which  
7 symptom is often difficult for a physician lacking  
8 specific expertise in this area. As such, patients  
9 self-diagnosing and prescribing antihistamines can  
10 only delay and confuse proper diagnostic and  
11 medical or surgical management.

12           Leaving second-generation antihistamines  
13 as prescription medications will assure that  
14 allergic disease will be properly diagnosed and  
15 managed by physicians. Maintaining the current  
16 status will assure that more serious conditions  
17 will not be undiagnosed, and that patients will not  
18 be medicated inappropriately for diseases they do  
19 not have.

20           I would suggest to you that keeping the  
21 physician in the loop is in the patients' best  
22 interest. An appropriately trained healthcare  
23 professional is best able to assure that the  
24 symptoms of simple allergies are not those of a  
25 more serious disease, that simple problems do not

1 become serious problems, and that curable diseases  
2 do not become incurable, for example, a runny nose,  
3 proved by an over-the-counter second-generation  
4 antihistamine is not allowed to mask a potentially  
5 deadly malignant nasal mass.

6 In exercising its responsibility to  
7 protect the patient, the FDA must recognize that it  
8 is in the patient's best interest to preserve the  
9 status of these second-generation antihistamines as  
10 prescription medications. Thank you.

11 DR. BRASS: Thank you. We will now hear  
12 from Dr. Quel.

13 DR. QUEL: I am Dr. Quel, executive  
14 director of the Spanish-American Allergy Asthma  
15 Immunology Association. My income is coming from  
16 private practice. I am a Board certified  
17 allergist. My presentation and related expenses  
18 have not been, and will not be covered by a  
19 sponsor. I have not been an investigator for the  
20 three current second-generation antihistamines,  
21 Aventis, Pfizer or Schering Plough. I am not aware  
22 of any other way in which I may be in conflict. I  
23 will start my presentation.

24 I have served as a consumer  
25 representative, as well as a member of the

1 Allergenic Products Advisory Committee and,  
2 therefore, have closely followed FDA regulations  
3 and regulation changes. The decision regarding  
4 these medications is an extremely important one  
5 because its outcome will have a ripple effect on  
6 the health care of our society.

7 In order to decide if a drug is a  
8 candidate for an OTC switch numerous issues  
9 involving safety must be considered. One of the  
10 switch principles asks if the candidate has been  
11 used for a sufficiently long time on the Rx market  
12 to enable a full characterization of its safety  
13 profile.

14 At the time of Blue Cross' original  
15 petition, fexofenadine (Allegra) was prescribed at  
16 a dose of 60 mg twice daily. Last year it was  
17 released on the market with a dose of 180 mg once a  
18 day. Insufficient time has passed to permit an  
19 accurate characterization of the safety profile on  
20 this recent dosage.

21 A prescription formula for loratadine  
22 (Claritin) for children aged 2-5 was approved only  
23 5 months ago. Should the adult doses of loratadine  
24 be approved for OTC, it is very probable that  
25 parents will use the adult doses off label for

1 their children.

2           Cetirizine (Zyrtec), due to  
3 cross-reactivity and recently released pediatric  
4 doses has also had insufficient time for  
5 characterization of a safety profile.

6           It is important to remember nearly a  
7 ten-year process passed before it was realized  
8 there were cardiac side effects with terfenadine  
9 when used with other medications. A similar lapse  
10 of time occurred before the same problem was  
11 discovered with astemizole. Nor should we forget  
12 the recent action taken with PPA.

13           Another question asked by the switch  
14 principle is if the candidate safety profile has  
15 been defined at a high dose. This is not the case  
16 with the medications in question, and it is  
17 definitely not the case with one of the drugs being  
18 discussed which was released at a higher dose only  
19 one year ago.

20           The use of antihistamines combined with  
21 pseudoephedrine at a high dose of 240 mg in a  
22 single tablet form for use on a daily basis should  
23 raise serious concerns about switching it to an  
24 OTC. Since studies have shown that a majority of  
25 OTC drugs are used more than once daily, it is

1 possible, and perhaps even likely, that the public  
2 may use the non-sedating medications more than once  
3 daily. Concern must also be focused on special  
4 population groups such as the elderly as these  
5 drugs require dosing adjustments in patients with  
6 renal impairment.

7 Allergies are more prevalent than ever.  
8 In fact, it might be said that we are currently  
9 having an allergy epidemic. The important fact to  
10 realize is that one form of allergic disease can  
11 cause or worsen other symptoms. Recent studies  
12 have indicated that up to 80 percent of asthmatics  
13 have rhinitis.

14 It has been acknowledged in several  
15 consensus reports that allergic rhinitis is  
16 associated with impairment of daily function at  
17 home, at work and in school. The use of  
18 antihistamines is not a simple solution to a more  
19 complex management of an allergic condition and  
20 related diseases such as asthma, otitis, sinusitis  
21 and urticaria. Mortality due to asthma is on the  
22 rise and, therefore, we must recognize the  
23 importance of physician guided control of the  
24 allergic condition. Careful control of allergic  
25 rhinitis will have a direct effect on asthmatic



1 patients.

2           The treatment period of seasonal allergic  
3 rhinitis has tremendous variations nationwide.  
4 Because plants pollinate ten months out of a year  
5 in the State of California, the use of these drugs  
6 is more frequent and persistent. This factor  
7 provides a different perspective to Blue Cross of  
8 California's petition and elevates the need for  
9 caution.

10           What is the worldwide experience of the  
11 switch candidate? The Blue Cross petition bases  
12 its safety evidence on a Canadian adverse drug  
13 reaction database that combines data from clinical  
14 trials with different methodologies. Further  
15 outcome data and review are necessary for proper  
16 assessment of safe use without physician  
17 supervision. Furthermore, contrary to Blue Cross  
18 assumption, the use of non-sedating prescriptions  
19 is higher in countries where these medications are  
20 prescribed by a physician.

21           An OTC switch will deprive an indigent  
22 population of the use of these drugs. If switched  
23 to OTC, approximately ten million patients will not  
24 be able to use these drugs. Instead of improving  
25 health care, we will be jeopardizing patient

1 safety. Thank you.

2 DR. BRASS: Thank you. We will now turn  
3 our attention to the FDA presentations addressing  
4 the issues before us today, and my understanding is  
5 the first presentation will be done by Cazemiro  
6 Martin.

7 **FDA Presentation**

8 **OTC Considerations**

9 MR. MARTIN: Good morning.

10 [Slide]

11 My name is Cazemiro Martin, and I am from  
12 the Division of Over-the-Counter Drug Products at  
13 the Food and Drug Administration.

14 This morning I would like to give you a  
15 brief review of the regulatory basis that  
16 establishes the conditions under which current OTC  
17 antihistamine ingredients are generally recognized  
18 as safe and effective and not misbranded.

19 [Slide]

20 In 1951 the Durham-Humphrey Amendment of  
21 the Federal Food, Drug and Cosmetic Act was passed.  
22 This act formally differentiated between  
23 prescription and OTC drug products. It provided  
24 that a drug be sold OTC if it is safe and if  
25 adequate directions for use can be written which

1 are readily discernable by a lay person so that a  
2 professional's advice is not required for the  
3 administration and use of the product.

4 [Slide]

5 The Durham-Humphrey Amendment currently  
6 describes two conditions under which a drug is to  
7 be dispensed by a prescription. The first  
8 condition as described in 503(b)(1)(A) of the Act  
9 is because of toxicity or other potentially harmful  
10 effects or the method of its use the drug is not  
11 safe for use except under the supervision of a  
12 licensed practitioner to administer the drug  
13 product. Or, as described in 503(b)(1)(B) of the  
14 Act, when the drug is limited by approved  
15 application to be used under professional  
16 supervision or a licensed practitioner.

17 [Slide]

18 A drug can be made available OTC by two  
19 regulatory avenues. The first avenue is by way of  
20 a new drug application process, or NDA route. By  
21 this process a drug product can be marketed OTC as  
22 a prescription to OTC switch, or directly OTC under  
23 an approved application.

24 Let me point out that the switch of a  
25 prescription drug to OTC requires a review of the

1 post-marketing safety data and a determination that  
2 consumers can adequately use the product in an OTC  
3 setting.

4           The second way a drug can be made  
5 available OTC is by the OTC drug monograph process.  
6 This process establishes conditions under which OTC  
7 drugs are generally recognized as safe and  
8 effective, or GRAS/E.

9           [Slide]

10           There are several questions to ask when  
11 considering if a drug should be switched from Rx to  
12 OTC. These include the condition for which the  
13 drug is intended be adequately self-recognized?  
14 Can the condition be successfully self-treated?  
15 And, is the self-treatment product safe and  
16 effective during consumer use?

17           If the response to these fundamental  
18 questions is yes, then the proposed drug product  
19 may, indeed, be a likely candidate for OTC  
20 availability.

21           [Slide]

22           With regard to an Rx to OTC switch  
23 candidate, it is essential that the proposed switch  
24 candidate has an acceptable margin of safety based  
25 on prior prescription marketing experience. It is

1 important that the proposed OTC dosages and  
2 indications for the drug are relatively safe, and  
3 that there is a low misuse potential and minimal  
4 abuse potential. In addition, the switch candidate  
5 should have a therapeutic window that is reasonably  
6 wide enough to ensure an acceptable margin of  
7 safety if a higher than recommended dose is taken.

8 [Slide]

9 It is essential that the switch candidate  
10 provides an OTC indication that enables the  
11 consumer to self-treat and to self-monitor with  
12 minimal physician supervision. It must also be  
13 determined that the switch candidate can be  
14 adequately labeled to allow safe and effective use.  
15 Consumers should be able to understand when to use  
16 the product, what are the potential benefits and  
17 risks, and how to use the product. Finally, the  
18 benefits from the OTC switch must clearly outweigh  
19 the risks.

20 [Slide]

21 As I mentioned earlier, the second avenue  
22 leading to OTC availability is by way of the OTC  
23 drug monograph process. Most of the antihistamines  
24 currently available OTC are marketed under this  
25 process which, again, establishes the conditions

1 under which OTC drugs are generally recognized as  
2 safe and effective.

3 The OTC drug monograph process essentially  
4 involves a four-stage procedure that includes the  
5 deliberation of an advisory review panel, followed  
6 by the development and subsequent publishing in the  
7 Federal Register the following notices, an advanced  
8 notice of the proposed rulemaking that includes the  
9 advisory panel report, followed by a tentative  
10 final monograph, or TFM and, lastly, the publishing  
11 of a final monograph.

12 Let me point out here that public comments  
13 are requested in response to the advance notice of  
14 the proposed rulemaking and the tentative final  
15 monograph. You will find in your background  
16 package these publications that specifically relate  
17 to the OTC drug review of antihistamine products.

18 [Slide]

19 With regard to the OTC antihistamine  
20 ingredients currently available under the OTC drug  
21 monograph process, a single advisory review panel  
22 was established for the OTC cough, cold, allergy,  
23 bronchodilator and antiasthmatic drug products.  
24 This panel is referred to as the cough/cold panel.

25 As part of the OTC drug review process,

1 the cough/cold panel reviewed data and information  
2 submitted to it concerning OTC antihistamine  
3 ingredients. Upon completion of its review, the  
4 panel prepared a report to the FDA Commissioner.  
5 This report outlined the panel's recommendations  
6 and proposed monograph conditions under which OTC  
7 antihistamine drug products are generally  
8 recognized as safe and effective and not misbranded  
9 under recommended and suggested conditions of use.

10 [Slide]

11 In the Federal Register of September 9,  
12 1976 the agency published an advance notice of  
13 proposed rulemaking to establish a monograph for  
14 OTC cough, cold, allergy, bronchodilator and  
15 antiasthmatic drug products. The notice also  
16 included the cough/cold panel's report concerning  
17 OTC antihistamine ingredients. In its report, the  
18 panel indicated that antihistamines are effective  
19 in suppressing symptoms of allergic rhinitis, such  
20 as hay fever, and that OTC antihistamines have a  
21 low order of acute and chronic toxicity.

22 [Slide]

23 The panel noted that because  
24 first-generation antihistamine active ingredients  
25 readily cross the blood-brain barrier, the most

1 common CNS side effects include sedation and  
2 cognitive impairment which are widely recognized as  
3 drowsiness. The panel pointed out that  
4 anticholinergic side effects are also common with  
5 the use of these first-generation antihistamine  
6 ingredients.  
7 Such effects include dryness of the mouth and  
8 urinary retention. The panel also noted the  
9 generally held belief that first-generation  
10 antihistamines may reduce the volume and cause  
11 thickening of bronchial secretions. Other less  
12 common cardiovascular, gastrointestinal and  
13 hematological side effects were mentioned in the  
14 panel's report to the Commissioner.

15 [Slide]

16 In its report, the panel also recommended  
17 dosages, dosing intervals and labeling for OTC  
18 antihistamine ingredients. With regard to the  
19 labeling of these ingredients, the panel  
20 recommended that antihistamines be labeled for  
21 temporary relief of symptoms associated with  
22 allergic rhinitis and include adequate warnings for  
23 the safe and effective use of these products.

24 Recognizing the potential harm with the  
25 use of these products under circumstances in which



1 alertness is important, the panel proposed that the  
2 labeling include cautionary or warning statements  
3 that relate to drowsiness, driving or operating  
4 machinery, and the use of alcoholic beverages when  
5 taking these products.

6           With regard to the anticholinergic  
7 effects, the panel recommended that the labeling  
8 include warnings against use of antihistamines if  
9 consumers have difficulty in urination due to  
10 prostatic hypertrophy or if the consumer has  
11 breathing problems such as chronic bronchitis of  
12 emphysema, unless directed by a doctor.

13           [Slide]

14           After reviewing the comments and the new  
15 data submitted in response to the advance notice of  
16 proposed rulemaking, the agency published a  
17 tentative final monograph, or TFM, in 1985. This  
18 document describes the agency's position concerning  
19 conditions under which OTC antihistamine drug  
20 products are generally recognized as safe and  
21 effective. Comments and any new data and  
22 information were, indeed, requested in response to  
23 this document.

24           [Slide]

25           After reviewing additional data and

1 information and public comments in response to this  
2 TFM, the agency published in the Federal Register  
3 of 1992 a final monograph for OTC antihistamine  
4 drug products. The final rule establishes  
5 conditions under which 13 OTC antihistamine  
6 ingredients marketed, again, under this OTC  
7 monograph process, are generally recognized as safe  
8 and effective. The final rule also addresses  
9 allergy indications only and provides class  
10 labeling for the antihistamine ingredients included  
11 in the monograph.

12 [Slide]

13 This slide identifies the 13 immediate  
14 release antihistamine ingredients in the final  
15 rule, in the final monograph. This list, however,  
16 does not include extended release OTC  
17 antihistamines or other OTC antihistamine  
18 ingredients currently marketed under the NDA  
19 process.

20 [Slide]

21 Those ingredients that are marketed under  
22 the NDA or abbreviated NDA process are listed on  
23 this particular slide.

24 [Slide]

25 There are six ingredients that were not

1 included in the OTC antihistamine final monograph.  
2 The reasons for not including these six ingredients  
3 include potential carcinogenicity, lack of adequate  
4 and effectiveness data, no safety or effectiveness  
5 data submitted, and unresolved questions concerning  
6 promethazine's causal role in tardive dyskinesia.  
7 I ask you to please keep in mind the reasons that I  
8 have mentioned for not including these ingredients  
9 in the final monograph as you listen to the next  
10 presentation.

11 [Slide]

12 As I mentioned previously, the final rule  
13 for OTC antihistamine drug products provides class  
14 labeling for the safe and effective use of these  
15 products. This information will soon appear, as  
16 some manufacturers have already done, in the new  
17 OTC drug facts labeling format, which is described  
18 in Section 201.66 of the Code of Federal  
19 Regulations.

20 [Slide]

21 This new format will enable consumers to  
22 easily find and understand important information  
23 included under various headings and subheadings  
24 within the drug facts enclosure. You have been  
25 given an example of an OTC antihistamine label in

1 this new drug facts.

2           The standard labeling format and the  
3 labeled use claims are the same for both monograph  
4 and NDA approved OTC antihistamines. However,  
5 content label may vary to some extent based on  
6 ingredient-specific or product-specific data-driven  
7 differences. Please note that in this new format  
8 the side effects of drowsiness and urinary  
9 retention, as well as information concerning when  
10 to consult a doctor or a pharmacist before using  
11 these products are prominently listed under  
12 specific warning headings. Similarly, the  
13 directions section will be easier to find and  
14 understand in this new format.

15           [Slide]

16           In summary, when considering whether or  
17 not a drug product should be available OTC, the  
18 agency's primary concern is an assessment of the  
19 overall margin of safety and effectiveness.  
20 Factors that suggest an acceptable margin of safety  
21 include minimal toxicity, low potential for harmful  
22 effects, low potential for abuse and misuse, and a  
23 therapeutic window that is reasonably wide enough  
24 to ensure an acceptable margin of safety.

25           In addition, the consumer must be able to

1 successfully self-recognize and self-treat the  
2 condition for which the drug ingredient is  
3 intended. To further ensure an acceptable margin  
4 of safety and effectiveness, it must be determined  
5 that the drug product can be adequately labeled to  
6 ensure safe and effective use. Of equal importance  
7 certainly, the benefits of using any OTC drug  
8 product should outweigh the risk.

9           The agency has carefully evaluated the  
10 risk inherent in the OTC availability of  
11 antihistamines, and has concluded that with  
12 appropriate labeling these products can be  
13 considered reasonably safe and effective to use in  
14 an OTC setting.

15           Our next speaker will be Dr. Robert Meyer,  
16 Director of the Division of Pulmonary and Allergy  
17 Drug Products. Dr. Meyer will discuss the clinical  
18 and safety perspectives on the citizen petition  
19 submitted by Blue Cross of California. Thank you  
20 for your time and attention.

### 21           **Clinical Safety Overview**

22           DR. MEYER: Thank you. As we are getting  
23 the slides set up -- I have a fair number of slide  
24 to move through so I will do so with some dispatch.  
25 I am glad I don't have a long disclosure statement

1 to make. I can assure you I work neither for a  
2 managed care organization nor for a pharmaceutical  
3 firm.

4 [Slide]

5 As we have just emphasized and as I want  
6 to reemphasize here, some of the important  
7 considerations for an OTC switch include the  
8 ability of a consumer to either self-diagnose  
9 and/or self-manage, as well as the safety and the  
10 effectiveness of particular drugs used in that  
11 setting, in other words, without a learned  
12 intermediary.

13 [Slide]

14 In many cases where these switches are  
15 proposed by sponsors, these considerations may be  
16 addressed through actual use studies meant to  
17 replicate the OTC setting and/or label  
18 comprehension studies, these focusing on issues  
19 within the labeling that might be specifically of  
20 question for that drug product or indication.

21 [Slide]

22 All three of the drugs that are listed in  
23 the citizen petition are antihistamines, and though  
24 there are other approvals that are part of their  
25 labeling they are all approved for allergic

1 rhinitis. As already pointed out in the previous  
2 talk, FDA accepts allergic rhinitis to be an  
3 appropriate OTC indication and, furthermore, FDA  
4 accepts antihistamines as appropriate for the OTC  
5 use.

6 Back on this bullet, I would point out  
7 though that it is not just antihistamines that we  
8 have accepted as being appropriate in the OTC  
9 setting. These same two committees have met in the  
10 past to discuss things like nasal crom, for  
11 instance, which has an allergic rhinitis  
12 indication. And, as Cazemiro Martin pointed out,  
13 we have established appropriate OTC labeling for  
14 antihistamine products both under the monograph as  
15 well as NDA antihistamines that have been switched  
16 to the over-the-counter status.

17 [Slide]

18 Therefore, in terms of an actual  
19 requirement for such a switch as proposed by the  
20 petition, FDA has determined that neither an in-use  
21 study nor a labeling comprehension study is  
22 strictly necessary for the OTC switch proposed.  
23 Because of this, we are also not seeking advice  
24 today, although it has come up as a question, about  
25 allergic rhinitis as an OTC indication. That is

1 not the intent of today's meeting, to revisit that  
2 decision. Nor are we wanting to focus on the  
3 effectiveness of Claritin, Zyrtec or Allegra in the  
4 OTC setting. I think we accept that they are  
5 effective drugs and since other antihistamines are  
6 effective in that setting we accept that these  
7 would be as well.

8 [Slide]

9 So the focus today will really be on the  
10 safety profile that we have with these particular  
11 agents, both pre- and post-marketing. In many  
12 ways, FDA -- and this was a large working group  
13 that had components from the Division of Pulmonary  
14 and Allergy Drug Products, the Division of  
15 Over-the-Counter Drug Products, as well as the  
16 Office of Post-Marketing Risk Assessment -- the FDA  
17 performed a safety review of these items in many  
18 ways to address the kind of questions that we  
19 expect sponsors to address when they propose a  
20 switch. Of course, there were other data submitted  
21 by the petitioner and available in the literature  
22 and elsewhere to also help inform this review.

23 [Slide]

24 The elements of the presentation that I am  
25 going to give will first focus on the NDA database,



1 which included standard safety data that you would  
2 get for just about any new drug application,  
3 specific cardiac safety evaluations that were done  
4 for these drugs, as well as issues related to any  
5 drug-drug interactions or other metabolic  
6 considerations. Also, we will review the  
7 post-marketing experience, and this consisted of  
8 case review of our adverse event reporting system,  
9 or the AERS system -- I will use this acronym  
10 frequently throughout the rest of the talk.

11 In the NDA review we focused on the single  
12 ingredient compounds. The combination products in  
13 question in the petition contain daily amounts of  
14 pseudoephedrine that are within the monograph  
15 dosing, although in a controlled release form and,  
16 furthermore, there are NDA controlled release  
17 antihistamine decongestant combinations available  
18 over-the-counter. But because pseudoephedrine does  
19 have some known cardiac effects, they may confound  
20 the look at safety, particularly the cardiac  
21 events, so we focused the NDA review on the single  
22 ingredient information. However, in the  
23 post-marketing data it is not always possible to  
24 separate out from the reports whether the specific  
25 report is for a single ingredient product or a

1 combination product.

2 [Slide]

3 I do want to make some caveats here about  
4 the safety data. The safety review is not intended  
5 to be comparative of the three agents. In fact, we  
6 have fairly scant data that would rigorously  
7 compare these three agents, and that is not our  
8 intent although, because there are three items or  
9 three drugs listed in the petition, I will be  
10 talking about the experience with the three in  
11 close proximity.

12 We are also not here to really attempt to  
13 rigorously compare these products to the OTC  
14 antihistamines. I would point out that there was  
15 an earlier statement made that we have concluded  
16 that, in fact, these drugs are safer than the OTC  
17 antihistamines and that is not the intent of the  
18 FDA safety review nor was it a conclusion of our  
19 safety review. Rather, the safety review is meant  
20 to focus on the safety experience with these agents  
21 individually and on their own, regardless of the  
22 experience of the other OTC available  
23 antihistamines.

24 [Slide]

25 Furthermore, I want to also point out that

1 our most definitive safety data in terms of  
2 establishing any kind of causality comes from  
3 controlled studies within the NDA. Post-marketing  
4 data is very useful and, in fact, is clearly a way  
5 to signal or to see signals of perhaps some rare  
6 events that couldn't be detected in an NDA because  
7 an NDA has a limited number of patients exposed,  
8 albeit these particular drugs had very reasonable  
9 numbers but we know from experience that even very  
10 large NDA databases may not fully define the safety  
11 profile for very rare events. On the other hand,  
12 the post-marketing data can be very, very hard to  
13 assess for any degree of causality. Unless it is a  
14 clearly distinct signal, it may be very difficult  
15 to know whether anything seen in the adverse event  
16 database is really causally related to the drug.

17 In an attempt to at least put some of the  
18 signals that we saw in perspective though, an  
19 epidemiology evaluation was done but, again, due to  
20 the limitations of the data available this is not a  
21 definitive look.

22 [Slide]

23 So, we are here to talk about the safety  
24 experience of three different drugs sold under the  
25 brand names of Claritin, Zyrtec and Allegra. The

1 Claritin original NDA was approved in 1993, and it  
2 is currently approved in five different dosage  
3 forms, down to age two. I should point out right  
4 here, however, that just as earlier Dr. Ganley had  
5 said that each of these drugs should be considered  
6 separately in further discussions, it is not  
7 necessarily the case that all age ranges, all  
8 formulations and/or all indications would be  
9 proposed or thought of as part of the OTC switch.  
10 For instance, the CIU, or chronic idiopathic  
11 urticaria, is not a well-established  
12 over-the-counter indication.

13           Cetirizine was approved for marketing in  
14 December of 1995, and Allegra in July of 1996, and  
15 cetirizine is currently labeled down to age two in  
16 two dosage forms, and Allegra down to age six in  
17 three dosage forms. As pointed out by the sponsor,  
18 we have been working with the sponsor to establish  
19 more pediatric data with Allegra.

20           [Slide]

21           So, in reviewing the NDA safety data  
22 first, I would like to go through the number of  
23 patients exposed during the original NDA; the  
24 safety experience in the clinical trials, and this  
25 will be mainly highlighted in the major experience;

1 a brief discussion of the cardiac safety data that  
2 have been established for that specific moiety; and  
3 then touch upon drug interactions.

4 [Slide]

5 Why the focus on the cardiac safety and  
6 the drug-drug interactions? Part of this, as you  
7 have already heard, arises from the experience with  
8 Seldane, or terfenadine, which is the parent  
9 compound of fexofenadine. In this particular case,  
10 it was the parent compound that had the dire  
11 cardiac effects that came out. I would also point  
12 out that we knew of those cardiac effects much  
13 earlier than the ten years that it took for that  
14 drug to be withdrawn from the market. In fact,  
15 there was an advisory committee about the adverse  
16 effects in 1990, which was about five years after  
17 it was originally marketed. But, in any case, the  
18 effects for Seldane were malignant arrhythmias  
19 occurring in a setting of metabolic inhibition or  
20 drug-drug interactions, and there was a similar  
21 issue, of course, we astemizole which led to its  
22 withdrawal.

23 [Slide]

24 In addressing the cardiac safety once the  
25 underlying problem was better established, there

1 are certain sets of studies that are expected or  
2 commonly done for workup of the cardiac effects.  
3 These include in vitro studies of specific ion  
4 channels, including recombinant human channels; in  
5 vivo high dose animal studies, as well as clinical  
6 data such as high dose studies or drug interaction  
7 studies.

8 [Slide]

9 First turning to Claritin, and I will go  
10 through the NDA database for each drug before  
11 turning to the next, there were over 90,000  
12 patients exposed for the original NDA. This is  
13 actually a very large database. The adverse event  
14 profile seen was quite consistent with an  
15 antihistamine given to this population. We had no  
16 significant clinical safety signals at the time of  
17 the approval of the original NDA.

18 [Slide]

19 This table is taken from the labeling, and  
20 it is meant to represent the most frequently  
21 reported adverse events with Claritin that had some  
22 excess in incidence related to placebo, in other  
23 words, where there might be some signal of  
24 causality.

25 These events for Claritin included

1 headache, somnolence, fatigue and dry mouth. I  
2 would point out, sine I am going to be showing data  
3 in relative close succession here, that you really  
4 need to look at specifics of the drug and placebo  
5 rate within these tables, and not compare across  
6 these tables.

7 [Slide]

8 One thing that did come out of the  
9 Claritin NDA database is that the somnolence  
10 reported, which at the recommended dose was quite  
11 comparable to placebo, was dose related and, in  
12 fact, was 10-12 percent with the 20 mg daily dose  
13 and 12-13 percent with the 40 mg daily dose.  
14 Pediatric studies done have shown a similar adverse  
15 event profile, again, for what would be expected  
16 for an antihistamine given to an allergic  
17 population. Some other terms that showed up in  
18 excess to placebo at a fairly low incidence  
19 included things like nervousness, hyperkinesia,  
20 wheezing and abdominal pain. But, again, there  
21 were no significant safety concerns at the time of  
22 the approval of the original NDA or the pediatric  
23 indications.

24 [Slide]

25 For the Claritin cardiac safety, the in

1 vitro testing, both through ion channel testing and  
2 myocardial cells, was negative. There were no QT  
3 or repolarization effects documented in animal  
4 studies. Furthermore, with high dose clinical  
5 studies at up to 16 times the currently recommended  
6 dose, there is no significant cardiac effect seen  
7 in the clinical trials, including any measurement  
8 of perturbation of the cardiac repolarization or  
9 QTc on the cardiogram. There was a QTc effects  
10 that were felt to predict Seldane propensity for  
11 leading to malignant arrhythmias when  
12 co-administered with drugs that inhibited its  
13 metabolism.

14 [Slide]

15 For the metabolic considerations, the  
16 drug-drug interactions with Claritin, it is largely  
17 metabolized by the cytochrome P3A4 as well as the  
18 2D6 pathways. In fact, drug interaction studies  
19 were done with erythromycin, dimetidine and  
20 ketoconazole, and they showed some increase in  
21 loratadine and its major metabolite desloratadine  
22 exposure when co-administered with these drugs but  
23 certainly not to the degree that was seen with  
24 Seldane and its parent compound of terfenadine.  
25 Furthermore, there was no apparent clinically



1 significant impact of this interaction, in other  
2 words, no effect on the cardiogram.

3 Renal and hepatic insufficiency decreased  
4 clearance with loratadine and there are some dosing  
5 recommends for dosage adjustments related to  
6 patients with these conditions.

7 [Slide]

8 For the Zyrtec NDA database, I would just  
9 point out that Zyrtec is an active metabolite of  
10 hydroxyzine which is a prescription antihistamine,  
11 and the safety profile of that may, in fact, offer  
12 some information about the safety of Zyrtec itself.  
13 But for the ingredient and compound cetirizine in  
14 question, we had over 3900 patients treated during  
15 the clinical trials with the original NDA. Again,  
16 the adverse event profile was what might have been  
17 expected with an antihistamine given to allergic  
18 patients.

19 [Slide]

20 This again is a table extracted from the  
21 package insert that shows the major adverse events  
22 that were reported, or the most frequent adverse  
23 events, I should say, that were reported during the  
24 clinical trials with cetirizine, with somnolence  
25 being at 13.7 percent versus a placebo rate here of

1 6.3 percent. The other common adverse events cited  
2 were fatigue, dry mouth, pharyngitis and dizziness.

3 [Slide]

4 Somnolence was dose-related. There were  
5 actually two doses recommended in the Zyrtec  
6 package insert, both the 5 mg and the 10 mg dose,  
7 and actually the rate for somnolence was 11 percent  
8 for the 5 mg and 14 percent for the 10 mg and,  
9 again, the placebo rate was 6 percent as shown on  
10 the last slide.

11 Again just highlighting some of the  
12 experience in children for events that were  
13 reported higher than placebo that were not  
14 necessarily as high up on the list in adults, we  
15 had things like abdominal pain, diarrhea and  
16 vomiting -- so, some low-level GI effects were  
17 reported. Interestingly, in children the  
18 somnolence was reported only in 1.9 percent of the  
19 children at 5 mg, 4.2 percent at the 10 mg. Here  
20 the placebo rate was about 1.3 percent. Again, no  
21 significant safety signals arose from the original  
22 NDA.

23 [Slide]

24 The Zyrtec cardiac safety was again quite  
25 reassuring in that in vitro testing revealed no

1 significant effects are relevant concentrations.  
2 There were no significant QT or repolarization  
3 effects seen in whole animals. There were no  
4 significant cardiac adverse events seen in the  
5 clinical trials, including trials up to six times  
6 the recommended daily dose.

7 I would point out, however, that one  
8 safety exposure study done did show what appeared  
9 to be an increase in QTc, that interval of the  
10 electrocardiogram, using a specific formula for  
11 correcting for heart rate called Bazett's  
12 correction. I think it is fairly well appreciated  
13 that Bazett's, for drugs that can increase the  
14 heart rate, tends to exaggerate this number, but  
15 this was placed in the labeling for Zyrtec just  
16 because it was information we had and we felt it  
17 was important to be conservative in relaying that  
18 information. However, I think all these data taken  
19 together would suggest that Zyrtec really does not  
20 have a potential to significantly impact on the  
21 cardiac repolarization.

22 [Slide]

23 For metabolic considerations for Zyrtec,  
24 it is renally excreted, largely in an unchanged  
25 state. Therefore, there are not many or any

1 significant drug-drug interactions. Renal  
2 impairment, not surprisingly, does cause a modest  
3 decrease in clearance, so a modest increase in  
4 exposure. And, hepatic impairment causes a small  
5 effect on clearance as well. Again, there are some  
6 dosage recommendations in the labeling.

7 [Slide]

8 Allegra, fexofenadine, as I pointed out  
9 earlier is the active metabolite of terfenadine but  
10 it does not have the apparent QT properties of the  
11 parent compound, as I will get to in a minute. We  
12 had over 2300 patients exposed to Allegra in the  
13 original NDA database.

14 [Slide]

15 Here is another table extracted from the  
16 package insert, showing the top reported adverse  
17 events and their relationship to placebo. These  
18 are all events that occurred in excess to placebo,  
19 and included such reports as viral infections,  
20 nausea, dysmenorrhea, drowsiness, dyspepsia and  
21 fatigue.

22 [Slide]

23 Except at very high doses, the evidence in  
24 the NDA was that there did not seem to be a clear  
25 dose relationship to any reports of somnolence with

1 fexofenadine. The adverse event profile from the  
2 pediatric studies down to age six, in addition to  
3 what might be expected for this class of agents  
4 given for this indication, included headaches,  
5 accidental injuries, cough, fever, pain, otitis  
6 media and upper respiratory infections. Again, no  
7 significant safety signals at the time of the NDA  
8 approval.

9 [Slide]

10 Not surprisingly, Allegra, fexofenadine,  
11 underwent a very full safety evaluation and, again,  
12 it was very reassuring. In vitro testing of ion  
13 channels and isolated myocytes showed no evidence  
14 of repolarization effects. Whole animal studies  
15 showed no effects even at high levels of exposure,  
16 and there were no significant cardiac events  
17 reported in clinical trials either at recommended  
18 doses or, in fact, very high doses compared to what  
19 is recommended.

20 [Slide]

21 The other feature that makes fexofenadine  
22 very distinct from its parent terfenadine is that  
23 it has very little in the way of metabolic  
24 considerations. It is minimally metabolized  
25 itself, although drug interaction studies showed a

1 small increase in serum levels or levels of  
2 exposure when concomitantly administered with drugs  
3 like ketoconazole. It wasn't well understood at  
4 the time and later it appears to perhaps be related  
5 to the intestinal absorption through organic ion  
6 transported proteins and P glycoprotein. But there  
7 is no evidence of important changes in metabolism  
8 in special populations nor important drug-drug  
9 interactions.

10 [Slide]

11 Therefore, to summarize the data, not  
12 surprisingly considering these are approved  
13 compounds, the FDA felt that all three of these  
14 drugs showed an acceptable safety profile in their  
15 various NDAs. The workup for cardiac effects was  
16 reassuring. Although Claritin does have some  
17 drug-drug interactions mentioned in the label and  
18 known drug-drug interactions, these do not have any  
19 apparent clinical consequence and, again, are not  
20 in the same kind of order of magnitude as those  
21 seen with terfenadine.

22 [Slide]

23 Are there some additional caveats before  
24 turning to the post-marketing experience? Clearly,  
25 the duration of marketing will affect the total

1 number of reports even if there is no causality to  
2 any of the reports. The longer the drug is out  
3 there, the longer it has to receive reports.

4 The extent of use, similarly, will affect  
5 the total number of reports that come in. Finally,  
6 heightened sensitivities and other temporal trends  
7 may affect the number of reports for any specific  
8 drug. I mention this partly because Claritin was  
9 approved earlier on than the other drugs and was  
10 marketed at a time when there was really a  
11 heightened sensitivity to some of the cardiac  
12 effects.

13 [Slide]

14 In working on these issues in response to  
15 the citizen's petition, the FDA had originally done  
16 some of this work in April of 2000 but we have  
17 updated it for looks at serious events that have  
18 been reported in the last year.

19 Overall, this assessment shows that all  
20 three drugs have a good post-marketing safety  
21 profile, though there are a few signals seen in the  
22 adverse event reporting. However, if we were not  
23 here discussing the OTC switch, I would like to  
24 emphasize that none of the issues we found in our  
25 review would warrant reconsideration for overall

1 approval or marketing.

2 [Slide]

3 Again, we are not going to rigorously  
4 compare to the OTC antihistamines but we did, in  
5 our safety review, attempt to look at the  
6 experience with the OTC antihistamines. Partly  
7 because of the difference in the reporting systems  
8 or things like monograph antihistamines, because of  
9 the different temporal trends, the length of time  
10 these products had been marketed, it is really not  
11 amenable, the data are not amenable to a rigorous  
12 comparison to what we have for the prescription  
13 products in question today. However, it is clear  
14 that central nervous system events, particularly  
15 sedation and altered motor performance, are quite  
16 common as are anticholinergic effects. Rare cases  
17 of seizures, liver failure or serious cardiac  
18 events and other rare events have been noted both  
19 for specific drugs as well as generally in the  
20 literature.

21 [Slide]

22 I would point out quickly here that the  
23 over-the-counter antihistamines actually carry some  
24 caveat about their use in airway disease due to  
25 their bronchial secretion drying properties. In



1 fact, some of the labeling for the drugs in  
2 question today have had that specifically removed  
3 because of the safety data that suggests that they  
4 are not problematic when given to asthmatic  
5 patients.

6 [Slide]

7 We have over 4081 spontaneous adverse  
8 events in the database that we looked at for all  
9 loratadine products. Again, I would emphasize that  
10 this would include some pseudoephedrine products.  
11 The top ten adverse event terms in terms of  
12 frequency of reports are drug ineffective, drug  
13 interactions, headache, palpitations, dizziness,  
14 tachycardia, insomnia, sedation, dermatitis and  
15 nervousness. Again, I want to emphasize that these  
16 would include some pseudoephedrine products. So,  
17 some of these items on here are known properties of  
18 pseudoephedrine and may confound the consideration  
19 of these specific events.

20 [Slide]

21 Because of the question about cardiac  
22 effects with the newer generation antihistamines,  
23 we did review the serious cardiac events for  
24 Claritin in depth. Out of all the cases reported,  
25 there were actually 86 cases that were looked at

1 because of at least some plausibility that they  
2 could be related to drug exposure. This is not to  
3 infer causality, but there were some cases that  
4 clearly could not have been due to drug exposure.

5 Patients in these reports were ranging in  
6 age from about 2 years old to 87 years, although  
7 about 40 percent of these patients were less than  
8 50. The large majority of these cases occurred in  
9 a setting of confounding factors.

10 [Slide]

11 There are some hepatic terms in the  
12 approved Claritin labeling in terms of adverse  
13 events for which there has been some notice either  
14 in clinical trials and/or in post-marketing  
15 experience, again, without clear causality. But  
16 that led us to at least look at the hepatic  
17 experience with Claritin. In fact, there are five  
18 cases of hepatic failure in the adverse event  
19 reporting system for Claritin. However, three of  
20 these five had confounding factors such as foreign  
21 travel or other suspect drugs that might cause  
22 liver injury. That left about two of the five that  
23 were otherwise unexplained but, again, without any  
24 clear causality.

25 I should also point out that for all these

1 events that I am focusing in on here, there is a  
2 known background rate in the population. So, any  
3 widely used drug might be expected at some point,  
4 even if it did not cause the event, to be taken in  
5 patients who experienced the event.

6 [Slide]

7 Post-marketing experience for Zyrtec -- we  
8 had about 3000 spontaneous adverse event reports in  
9 the database, and the most commonly reported were  
10 drug ineffective, sedation, thrombocytopenia,  
11 urticaria, dermatitis, pruritus, drug interaction,  
12 asthenia, headache and hypersensitivity. There is  
13 no currently marketed pseudoephedrine formulation  
14 for Zyrtec, I should point out, so these are all  
15 single ingredient.

16 [Slide]

17 The thrombocytopenia stuck out to us in  
18 that list so we did further assessment of that. In  
19 fact, there was one case without any clear  
20 causality reported in the NDA database. Out of the  
21 170 cases in the adverse event reporting system  
22 database, all but 11 cases were not reasonably or  
23 plausibly linked. So, there didn't even appear to  
24 be a good possibility that we could link those to  
25 possible Zyrtec exposure. Of these 11 cases, a

1 relationship could not be excluded but neither,  
2 would I add, could a relationship be established.  
3 I would say that the possibility of  
4 thrombocytopenia is listed under post-marketing  
5 events in the Zyrtec labeling.

6 [Slide]

7 Seizures which, at least in part, have  
8 been implicated as occurring in OTC antihistamines,  
9 were reported in 64 separate cases for Zyrtec and  
10 38 of these were reviewed in depth. Of those 38, 5  
11 were not apparent seizure events although they  
12 probably do fit into the category of a significant  
13 CNS effect. Patients who experienced these  
14 seizures were in the 3-79 years age range.  
15 Twenty-one of these were new onset; 12 were  
16 preexisting seizure.

17 I am sounding a little bit like a broken  
18 record, although we couldn't exclude a link between  
19 the possibility of these seizures, either new onset  
20 or worsening seizures, being linked to Zyrtec,  
21 there is also no data to establish that link  
22 either.

23 [Slide]

24 For serious cardiac events with Zyrtec we  
25 had 37 cases that were reviewed in depth, patients

1 ranging in age from 3-80 years. About half of  
2 these were under the age of 50. Again, as sort of  
3 a recurring theme here, the majority of these cases  
4 had confounding features, either preexisting  
5 disease, other drugs that might cause the  
6 particular cardiac event, or other features that  
7 would confound trying to establish causality.

8 [Slide]

9 For fexofenadine, the most recently  
10 marketed of these three drugs, we had about 1768  
11 spontaneous adverse events reported. Again, the  
12 most common top ten items are here -- drug  
13 ineffective, nausea, dizziness, dermatitis,  
14 headache, sedation, insomnia, palpitations,  
15 diarrhea and dyspnea. And, fexofenadine is  
16 available in a combination product although there  
17 was a gap in the marketing of the two to some  
18 degree.

19 I want to point out here, although I am  
20 not going to go into any details about it, the FDA  
21 team did also look at the safety experience for  
22 terfenadine because it seemed to us that one of the  
23 major pathways of action for terfenadine was, in  
24 fact, its metabolism to fexofenadine, its active  
25 metabolite. And, other than the cardiac safety

1 issue, we thought that in many ways, since the  
2 exposure levels were comparable of the two drugs,  
3 that the terfenadine experience would also inform  
4 the fexofenadine review. In fact, it largely  
5 echoed the Allegra experience except for the fact  
6 that the cardiac profile is obviously very  
7 different.

8 [Slide]

9 For the serious cardiac events with  
10 Allegra there were 39 cases reviewed for patients  
11 ranging in age from 15-89 years. Again, the most  
12 serious cases had a prior history of cardiac  
13 disease or concomitant drugs that could otherwise  
14 lead to serious cardiac events.

15 [Slide]

16 Also, we had some reports of seizures st  
17 fexofenadine. We had 17 cases that we reviewed in  
18 depth because of at least some possibility of a  
19 causal link. The patients in these reports were  
20 from 22-80 years old. Nine patients had no  
21 previous history of seizure; 10 patients were on  
22 drugs known to cause seizures; 8 had apparent  
23 positive dechallenge, in other words, they had an  
24 isolated event; and 1 possible rechallenge,  
25 although I would point out that the apparent event

1 on restarting fexofenadine was unwitnessed so it is  
2 not entirely clear whether it was a seizure.

3 [Slide]

4 So to summarize the post-marketing safety  
5 experience or review for these drugs, we do have  
6 some signals that arise in a look at the AERS  
7 database. After careful review, each drug has some  
8 cases of cardiac events and seizures that cannot be  
9 otherwise explained, and all these events occur  
10 with some background rate in the general  
11 population, as I earlier pointed out.

12 [Slide]

13 In part then, to try to address this issue  
14 to see whether we could put these reports into some  
15 perspective, the epidemiology staff within the  
16 Office of Post-Marketing Drug Risk Assessment  
17 estimated background reporting rates for these  
18 three drugs versus expected background incidences  
19 in the general healthy population. The events  
20 examined were serious cardiac events, seizures and,  
21 in the case of loratadine, hepatotoxicity.

22 [Slide]

23 The background incidence rates were  
24 estimated for comparison purposes, and came from  
25 estimates in a young population, 15 to the mid-40s,

1 who were otherwise healthy. So, these were a low  
2 risk population that the incident rate was drawn  
3 from. I would point out, however, that the drug  
4 experience comes from a mixed risk population. The  
5 denominator used was inferred from actual use data.

6 [Slide]

7 In terms of the numbers that we are  
8 talking about here, serious cardiac events of the  
9 kind that were the focus of our inquiry, occurred  
10 in about 44 per million person-years -- this is an  
11 estimate -- in the population, the young, healthy  
12 population. Seizures occurred at a rate of about  
13 90 per million person-years, and hepatic failure,  
14 not surprisingly, is lower than those, at about 1  
15 to perhaps as high as 2.3 per million person-years.  
16 That is the background rate for idiopathic hepatic  
17 failure.

18 [Slide]

19 I will not go into the details of the  
20 comparative numbers, but I will broadly summarize  
21 the epidemiology conclusions here. That is, the  
22 calculated reporting rates for all three drugs were  
23 comparable for the serious cardiac events and  
24 seizures. In other words, none of the drugs stood  
25 out for either of these two events. Furthermore,



1 these reporting rates were below the background  
2 rate for all three drugs and for all events,  
3 including the hepatotoxicity with loratadine.

4           However, due to the limitations of the  
5 data in these analyses, a safety problem for one or  
6 more of these drugs cannot be excluded, but the  
7 data are also reassuring in terms of there not  
8 being a clear signal either.

9           [Slide]

10           So, let me sum up the overall clinical and  
11 regulatory conclusions from the FDA's perspective.  
12 Overall, loratadine, fexofenadine and cetirizine  
13 have extensive favorable marketing histories and  
14 safety profiles. The Food, Drug and Cosmetic Act  
15 under the Durham-Humphrey Amendment sets criteria  
16 for when a drug should be Rx only versus when it  
17 should be available over-the-counter. The U.S.  
18 market has over-the-counter antihistamines  
19 available to treat systems of allergic rhinitis.

20           [Slide]

21           The WellPoint petition requests FDA to  
22 initiate a switch of three prescription  
23 antihistamines to OTC status, and action that  
24 actually the federal regulations allow for, that a  
25 petitioner can come to the Commissioner and ask for

1 such removal from Rx status.

2 Available data for these drugs supports  
3 them being effective for allergic rhinitis and we  
4 are not necessarily seeking advice on that today.  
5 There are certainly some low frequency safety  
6 signals that arise from our review of the safety  
7 database, however, using a weight of evidence  
8 approach, including consideration of all the  
9 preclinical or animal studies, the in vitro  
10 testing, the clinical testing under controlled  
11 conditions and the adverse event database, we feel  
12 that these three products have a favorable safety  
13 profile.

14 [Slide]

15 Therefore, the advice we are seeking from  
16 the combined committees today is given the current  
17 OTC status of certain antihistamines for the  
18 treatment of allergic rhinitis and the safety  
19 information discussed today, as well as all  
20 information that comes from other sources related  
21 to safety, should each individual drug be available  
22 OTC? Again, we are asking to separately consider  
23 these. This is not an all or none package.

24 If your recommendation is that any one of  
25 these should not, what other safety studies or

1 other information would be required or recommended  
2 for us to seek prior to such a switch? If, in  
3 fact, your recommendation is yes for any or all of  
4 these moieties, we would ask what modifications to  
5 the existing OTC antihistamine labeling would you  
6 recommend? Thank you.

7 **Questions from the Committee to the FDA**

8 DR. BRASS: Thank you. We have a few  
9 minutes which we will spend discussing the FDA  
10 presentation but, again, I would remind everybody  
11 that there will be time later in the afternoon for  
12 questions as well. Dr. Cantilena?

13 DR. CANTILENA: Yes, Dr. Meyer, can I ask  
14 you did your evaluation of the cardiac safety of  
15 Claritin include a publication just this year, I  
16 believe it was a couple of months ago, in Clinical  
17 Pharmacology and Therapeutics, which was a  
18 Georgetown study looking at a drug-drug interaction  
19 with Claritin and a 3A4 inhibitor that showed not  
20 only a pharmacokinetic action but also significant  
21 increase in the QTc interval? If you have looked  
22 at that, would you say that that change in the QTc  
23 was not clinically significant?

24 DR. MEYER: We are aware of that study and  
25 did look at the study to the extent we can.

1 Obviously, it is a publication that we did not  
2 primarily review, but I would say that there are a  
3 couple of points we would make about that study.  
4 Its original intent was, in fact, to use loratadine  
5 as a negative control for the other -- I believe it  
6 was an antidepressant that was in the study. In  
7 fact, the correction method used for the heart rate  
8 in the study was -- I think it is hard to know what  
9 that might have done. They used Bazett's  
10 correction for lower heart rates and Fredericia's  
11 for higher heart rates. They kind of split it in  
12 the middle.

13 I think the upshot of it is that we are  
14 not sure we can make sense of all the data,  
15 particularly in the light of the other data that  
16 are available to us and everything else we know.  
17 So I think, by and large, we note it but I would  
18 say that we, at this point, have some concerns  
19 about whether that is a meaningful study for us.

20 DR. CANTILENA: So, after you have a  
21 chance to look at it, if you conclude the study was  
22 done correctly, is that going to sort of change  
23 your conclusion in terms of the cardiac safety of  
24 Claritin?

25 DR. MEYER: Again, probably not. I mean,

1 it would be important for us to take that under  
2 consideration I think, but we are talking about a  
3 weight of evidence approach here, and we have other  
4 data that this stands in contradistinction to. So,  
5 I think we wouldn't necessarily just discount  
6 something offhand but I think that we need to take  
7 a weight of evidence approach.

8 DR. BRASS: Dr. Niederman?

9 DR. NIEDERMAN: When you consider these  
10 drugs going over-the-counter there is certainly the  
11 potential that people will be taking them under  
12 less supervision for a longer duration and maybe  
13 for non-indicated situations. Are you able to tell  
14 in your review of the data of side effects whether  
15 or not side effects were more or less likely to  
16 occur, or how often they occurred in patients who  
17 were taking it for a non-appropriate indication or  
18 for maybe a more prolonged duration of time than  
19 would have been recommended?

20 DR. MEYER: I am sorry that I missed the  
21 initial part of your question but I assume you are  
22 asking about the adverse event reporting data.

23 DR. NIEDERMAN: I am asking if they become  
24 over-the-counter and there would be less physician  
25 supervision, do we know from the adverse events

1 whether they are more likely to occur, or occurring  
2 in people without indication or taking it for a  
3 longer time than maybe is recommended or would be  
4 recommended under supervision.

5 DR. MEYER: Yes, I would certainly invite  
6 comments from OPMDRA colleagues who also did the  
7 primary review of these reports, but I would say  
8 that it would be very difficult to actually do such  
9 an analysis based on the reports. You commonly  
10 don't know the duration of treatment. You don't  
11 know the circumstances of its use. Other than,  
12 say, a clear report of intentional overdosing over  
13 time, that sort of thing, it would be very hard to  
14 actually do that sort of analysis.

15 DR. BRASS: Dr. D'Agostino?

16 DR. D'AGOSTINO: Just in terms of trying  
17 to inform me about more safety data of we think it  
18 is necessary and what types of studies would be  
19 needed, I want to go back to your slide that said  
20 neither an in-use study nor a labeling  
21 comprehension study are necessary for the OTC  
22 switch proposed. In some of the earlier  
23 presentations and some of the readings there were  
24 distinctions being made between the first  
25 generation and the second generation in terms of

1 the short-term use versus chronic use, in terms of  
2 the simple symptom relief with the first generation  
3 and complex conditions with the second, and then  
4 things like the common cold where the first  
5 generation effectively deal with them and the  
6 second generation don't. So, I assume that the  
7 statement you made about the in-use study and the  
8 label comprehension come because of the first  
9 generation data, yet, are we not to take seriously  
10 statements like chronic use and short-term use, and  
11 simple relief versus complex conditions?

12 DR. MEYER: I wouldn't want to  
13 characterize whether you should take something  
14 seriously or not. What I would point out, however,  
15 is that the indication in the prescription labeling  
16 is not very much different from what it would be in  
17 the OTC labeling, and the particular sponsor that  
18 discussed this -- that drug, Claritin, does not  
19 have an indication for complicated allergic  
20 rhinitis; it has an indication for seasonal  
21 allergic rhinitis.

22 So, I think, you know, it is sort of an  
23 interesting assertion that I didn't see data for,  
24 but also it sort of really does not speak to the  
25 indication that loratadine currently has.

1 DR. D'AGOSTINO: So, these distinctions  
2 are sort of new on the table between the first and  
3 second generation uses.

4 DR. MEYER: I would say that they are new  
5 on the table and, again, I am not aware of data to  
6 establish that that is the case. If the OTC  
7 antihistamines, both under the monograph and  
8 otherwise marketed under NDAs, are used in these  
9 kinds of limited, sort of more benign patients,  
10 that perhaps speaks to the success of the OTC drug  
11 labeling and I don't know why we should suppose  
12 that we would lack that success if that same  
13 labeling were used for loratadine, for cetirizine  
14 or for fexofenadine.

15 DR. D'AGOSTINO: Thank you.

16 DR. BRASS: Dr. Dykewicz?

17 DR. DYKEWICZ: I was hoping you could  
18 elaborate a bit more on the pediatric safety  
19 studies that are ongoing with fexofenadine. When  
20 do you anticipate that those would be completed?  
21 Also, has the agency essentially completed its  
22 studies about pediatric use of cetirizine relative  
23 to safety?

24 DR. MEYER: Well, the agency does not  
25 strictly do the studies. It is within the purview



1 of the sponsor. We do have a current pediatric  
2 initiative to get pediatric data, partly under  
3 written request. I would point out with regard to  
4 what the sponsor said about the ongoing studies  
5 that I think, by and large, the pediatric written  
6 requests include asking for data for populations  
7 that are in extreme often of labeling -- I am  
8 talking in general now -- because of known use in  
9 those populations. So, I think in terms of doing a  
10 reasonable safety evaluation in the pediatric  
11 population you would consider doing things like  
12 cardiograms and other special testing, where you  
13 might not have questions in adults about the  
14 effects, just because you are entering into a quite  
15 young population often.

16 I am not directly answering your question  
17 because some of it I can't directly address other  
18 than what the sponsor said. But, again, just to  
19 sort of qualify what the sponsor did say, yes, they  
20 stated that we had asked for some  
21 electrocardiograms in children but I think that  
22 that would not be a unique request for such a  
23 study.

24 DR. BRASS: Dr. Roden?

25 DR. RODEN: I have many questions but for

1 this presentation I have just a couple of points of  
2 clarification. First of all, can you clarify for  
3 me what the current approved labeling is for these  
4 three compounds? I know that they are in the  
5 briefing book but at least one of them is too small  
6 for my terrible eyes --

7 [Laughter]

8 -- so, the question is whether all the  
9 discussion we have heard about long-term management  
10 of the allergic patient falls in the purview of the  
11 currently approved label.

12 DR. MEYER: That is a good question, and I  
13 think you could get into some debate about seasonal  
14 allergic rhinitis because in some patients the  
15 season can be quite long. For instance, grass  
16 allergy can be more than a simple two weeks. Tree  
17 allergy is often shorter.

18 DR. RODEN: Like twelve months?

19 DR. MEYER: No. But in terms of perennial  
20 allergic rhinitis which clearly can be a much more  
21 chronic condition, if I recall correctly, it is  
22 only cetirizine or Zyrtec that currently carries  
23 that specifically in its labeling. I actually  
24 think their direct consumer advertising reflects  
25 that.

1 DR. RODEN: Another issue with respect to  
2 safety, one of the things that was a signal in the  
3 early terfenadine experience was the overdoses  
4 because that clearly gave a cardiac signal. Is  
5 there overdose experience with these three  
6 compounds of any type? Along the same lines, can  
7 you compare again or review again what the  
8 incidence of cardiac arrhythmias was in the  
9 terfenadine experience, say, between 1985 and 1989  
10 when people weren't sort of tuned into this  
11 possibility compared to the kind of rates that you  
12 quoted for us for the other three drugs?

13 DR. MEYER: The last question I think is  
14 very tough because you do have temporal trends. In  
15 fact, we are in an era now where people are  
16 somewhat tuned into these potential effects. For  
17 instance, if one were to give Allegra and see a  
18 cardiac event I think a physician might say, well,  
19 I know this is related to terfenadine and I really  
20 should report this. So, we have looked at those  
21 sorts of data and don't find any signal for  
22 concern, but it is very tough to do with the data  
23 that are available to us.

24 I am blanking on your first question. Oh,  
25 overdose. We do have some overdose experience with

1 each of the drugs. I don't know whether the folks  
2 from OPMDRA would like to say anything about it.  
3 There was one particular case that I believe  
4 occurred with loratadine where there were very,  
5 very high doses taken and there was some evidence  
6 of QT effects but that was also in the setting of  
7 other drugs of abuse in that patient, and it was  
8 not clearly a case where the overdose itself caused  
9 the cardiac effects.

10 DR. RODEN: Were there arrhythmias though?

11 DR. MEYER: I believe in that case there  
12 were. Let one of my colleagues from the Office of  
13 Post-Marketing Drug Assessment come up.

14 DR. WEAVER: Yes, I will just go through  
15 the fairly large overdoses that we had. For  
16 loratadine we have a case of a female of unknown  
17 age took 15-20 tablets of Claritin, but it was the  
18 D formulation, and had tachycardia.

19 A 3-year old boy took 45 mg and became  
20 drowsy. A 17-year old took a full bottle of  
21 Claritin, along with some diet pills, and  
22 experienced respiratory insufficiency requiring  
23 intubation, with tachycardia oliguria and  
24 somnolence.

25 An 18-year old took 300 mg of Claritin,

1 had tachycardia to 150 beats per minute,  
2 respiratory alkalosis and a normal QT in that case.  
3 That was the case that was published in the  
4 literature.

5 A 2-year old child took 120-150 mg, had  
6 minimal, unspecified tachycardia and nervousness.  
7 A 2-year old boy took 100-150 mg, had tachycardia  
8 to 150 beats per minute and a QTc of 413  
9 milliseconds.

10 DR. RODEN: Aside from tachycardia, do you  
11 have anything that says arrhythmia because those  
12 are all not arrhythmias?

13 DR. WEAVER: We had a 53-year old female  
14 with no prior cardiac history who took actually  
15 only 20 mg a day for 2 weeks and had acute  
16 ventricular tachycardia requiring electrical  
17 defibrillation. That is it for the experience for  
18 loratadine.

19 DR. MEYER: I would also point out again  
20 that we do have within the NDA database high dose  
21 studies, basically looking specifically at the  
22 cardiac safety.

23 Actually, I would like the opportunity, if  
24 I could, just very quickly to ask Dr. Roden for any  
25 views you might have on the study that I was

1 initially asked about the possible QT effects.

2 DR. RODEN: You mean this one? The reason  
3 I am sort of trying to dredge the large experience  
4 is that this is a relatively small study. There  
5 are a couple of little things about it that I find  
6 peculiar in the sense that they don't have much of  
7 a change in plasma concentrations either of parent  
8 drug or metabolite, yet, cite a readily detectable  
9 QT signal using this peculiar rate correction that  
10 you alluded to.

11 So, I am not sure what to make of it one  
12 way or the other, and I am much more interested,  
13 given the very large experience with these drugs  
14 that has accumulated to date, whether there is a  
15 safety signal when they are used. In the end it  
16 doesn't much matter whether they are HERG blockers  
17 or whether they prolong the QT five milliseconds  
18 under some experimental condition, if you have used  
19 it in thousands and thousand of patients and are  
20 attuned to the possibility of an arrhythmia and  
21 don't see much. That is probably more meaningful.  
22 So, I am not sure how to be reassured about these  
23 data. I am not sure how to interpret them.

24 DR. MEYER: I guess the one other point I  
25 want to make then in regard to your question is

1 that there are also limitations to our database in  
2 terms of the specific arrhythmia that we are  
3 worried about, the Torsades. It is not always  
4 captured in the setting where you would expect it  
5 to be, and since it is a relatively less common  
6 tachyrrhythmia it can get overwhelmed in any signals  
7 where you are trying to assess relative reports --

8 DR. RODEN: Although the overdose  
9 experience with terfenadine -- you know, it is the  
10 toxicity of terfenadine. With overdose Torsade is  
11 what happens. So, if there are overdoses with all  
12 these other drugs and that is not what happens, I  
13 find that reassuring.

14 DR. MEYER: Right, and in general I think  
15 that would be our answer, that we are not really  
16 seeing a signal coming out of the overdose  
17 experience we have.

18 DR. BRASS: Dr. Clapp?

19 DR. CLAPP: Dr. Meyer, I would like  
20 clarity on the FDA perspective on the significance  
21 of the AERS report from March, 2001 regarding  
22 Zyrtec and 39 percent having CNS or peripheral  
23 nervous system or psychiatric disorders, and  
24 complaints of that. Specifically, the interesting  
25 finding that I noted in reading that report was

1 that there were 16 attempted suicides of deaths or  
2 4 that didn't have any co-morbidities and were left  
3 unexplained. In reading this, I am wondering about  
4 the significance of this considering the recent  
5 experience with Accutane and labeling Accutane,  
6 which is a very highly controlled substance for  
7 physician prescription use only, and what body of  
8 evidence was needed to relabel Accutane, and then  
9 comparing it to the consideration of making Zyrtec  
10 over-the-counter in light of these reports.

11 DR. MEYER: Again, I actually can't speak  
12 to the specifics of Accutane but I would again  
13 point out that you are talking about often a fairly  
14 young, healthy population that are given  
15 antihistamines, and that there are certain  
16 background rates for these kinds of events.  
17 Although these things are cited in our review,  
18 specifically the suicide did not stand out as any  
19 kind of signal that we felt should otherwise be  
20 strongly considered in terms of the prescription  
21 marketing or the OTC marketing of these.

22 I would say as far as the overall CNS  
23 adverse event profile of Zyrtec, it is obvious or  
24 apparent from the look at the top adverse event  
25 reports in the NDA that there are perhaps more CNS



1 effects or penetration perhaps with cetirizine than  
2 the other two agents in questions today. Not to  
3 directly compare but I guess we can't help it to  
4 some extent, but if you cut across through the data  
5 for the others, there are actually fairly frequent  
6 side effects for the others as well. It stood out  
7 a little bit more with the cetirizine database but  
8 it did not seem to be unique, other than the fact  
9 that the reports were a bit more prominent in  
10 number.

11 DR. BRASS: At this point, because of the  
12 hour, we are going to break for lunch. For the  
13 committee members who signed up for lunch, they  
14 will be served in the restaurant. There is an area  
15 that has been reserved for the panel members.

16 I would also like to remind the panel that  
17 during lunch you are not to discuss the issues  
18 before the committee today or interact with  
19 petitioners or sponsors. We will reconvene  
20 promptly at one o'clock according to my watch.

21 [Whereupon, at 12:15 p.m., the proceedings  
22 were recessed for lunch, to reconvene at  
23 1:00 p.m.]

## 1 AFTERNOON PROCEEDINGS

## 2 Open Public Hearing

## 3 Professional Associations

4 DR. BRASS: The afternoon begins with a  
5 continuation of the open public hearing. Again, I  
6 would request from the presenters that they begin  
7 with identification and addressing the conflict of  
8 interest and sponsorship issues, and I thank them  
9 in advance for keeping to their five-minute time  
10 schedule. Our first speaker will be Dr. Lanier.

11 DR. LANIER: I would like to thank the  
12 panel very much for the opportunity to be a part of  
13 this historic event. My name is Dr. Bob Lanier. I  
14 am a pediatrician by primary training, and by  
15 secondary training a specialist in the management  
16 of individuals affected with the genetic aberration  
17 of allergy, asthma and related entities.

18 I would like to address the twelve  
19 scheduled conflicts although, to frustrate the  
20 counter, I will do them not necessarily in the  
21 order presented. In the 30-plus years since my  
22 graduation I confess to contributing to the public  
23 good by performing double-blind, placebo-controlled  
24 FDA-sanctioned, randomized clinical trials of both  
25 first- and second-generation antihistamines. I

1 have also consulted in that function from time to  
2 time with the three companies.

3 With that in mind, you might classify me  
4 as having a conflict, but I would remind the panel  
5 that familiarity occasionally breeds contempt. I  
6 own now, nor have I ever owned any stock in any of  
7 these companies, nor have my expenses in any way  
8 directly or indirectly been covered by these  
9 companies. I presented study data to groups of  
10 doctors at academic meetings and quasi-academic  
11 social meetings for which I received a fee.

12 I also confess, having been a senior vice  
13 president of a major health plan for nine years,  
14 charged with communicating managed care philosophy  
15 to the community and the familiarity and contempt  
16 reference also applies here.

17 I represent the 4000 allergists from two  
18 major national organizations, the American College  
19 of Allergy, Asthma and Immunology and the American  
20 Academy of Allergy, Asthma and Immunology. Our  
21 organizations receive both unrestricted and  
22 educational grants, advertising revenues from  
23 vendors for products for allergic and asthmatic  
24 patients, including the three pharmaceutical  
25 companies. Our organization advocates for our

1 patients, the great majority of which will be  
2 affected by the eventual decision being discussed  
3 here today.

4           The American College and the American  
5 Academy take neither an HMO pro response or an anti  
6 pharmaceutical response, but we do oppose the  
7 switch of these antihistamines from prescription to  
8 OTC at this very pivotal time in which the medical  
9 system is in transition. It has been fifty years  
10 since Durham and Humphrey put together the Bill  
11 that brought us here today -- fifty years. At the  
12 time that this was presented, less than ten percent  
13 of people had insurance, had any sort of healthcare  
14 assistance at all; ninety percent did not. Now we  
15 find the paradigm is completely reversed. Ninety  
16 percent of people have some form of assistance and  
17 ten percent do not. Therefore, some of the basic  
18 tenets of the spirit of the Humphrey-Durham act  
19 need to be re-looked at.

20           I had the joy of reading the congressional  
21 testimony in the Federal Register about the  
22 development of those bills in the '40s and the  
23 early '50s when it was finally advanced, and I  
24 would urge you to do the same thing. You would be  
25 inspired by it.

1           Now, whether the request for testimony  
2 today has been restricted to considerations of  
3 safety, safety is the culmination of many factors  
4 and any attempt to focus on any one factor may do  
5 the public harm. I would like to discuss safety on  
6 both an individual and a mass platform. The  
7 American College and American Academy say, if  
8 approved, the placement of these compounds on the  
9 OTC market will result in reduced availability of  
10 these valuable medications to our patients. The  
11 cost of these drugs will likely make them  
12 unavailable to patients who received them through  
13 insurance covered formularies. OTC availability  
14 will eliminate the physician from the care process  
15 of patients taking antihistamines. Overuse or  
16 misuse of this class of drugs for disorders which  
17 have no proven efficacy will increase health cost.

18           Allergies are not necessarily a  
19 self-diagnosable problem. We have a problem with  
20 the stance that has been presented here today.  
21 Although 20-30 percent of the population are  
22 allergic, we know by surveys that 75-80 percent of  
23 people feel like they are allergic. Everybody has  
24 got a little allergic to something and, because of  
25 that, this disease is trivialized. This is a

1 chronic problem and it lasts a long time. By  
2 placing these agents in an OTC status this  
3 trivialization will continue to occur. Reduced  
4 availability or utilization of these drugs without  
5 physician evaluation may mask or delay symptoms of  
6 larger diseases.

7 We are concerned because our organizations  
8 are dealing with children in many cases. It is the  
9 conclusion of our members that these three drugs  
10 are safe in the individual adult. We are not yet  
11 convinced of that in children. Children are not  
12 just scaled down adults. They have different  
13 metabolism. We are concerned they will be used in  
14 children in high doses since they are being used in  
15 low doses now by prescription. We need the  
16 surveillance system that only goes with  
17 prescription medications.

18 We are also concerned from a safety  
19 standpoint when overnight, with a stroke of a pen,  
20 millions of working poor will be denied access to  
21 non-sedating antihistamines by virtue of an OTC  
22 status. Poor patients can't afford the existing  
23 OTC medications. What happens when you have a new  
24 one? Can anyone rationally say these will cost the  
25 same or less than what we have there now?

1 Remember, we are talking about a chronic disease.  
2 We are talking about a problem that continues for a  
3 long time.

4 So, who bears the responsibility for  
5 driving accidents? From a mass standpoint because  
6 of costs, this is unfair and unsafe for poor  
7 people. For indigent people it is a disaster. I  
8 have in my own small practice over 200 families  
9 that are on compassionate medicine programs  
10 provided, among others, by the three companies here  
11 involved. There is no source of compassionate OTC  
12 medications or generic medications at all.

13 What we are witnessing here is a clash of  
14 titans. HMO plans are infuriated by DTC  
15 advertising and pharmaceutical companies have not  
16 yet communicated a rational picture to describe the  
17 enormous inequities of cost from one company to  
18 another. The American College and American Academy  
19 challenge the petitioners and the industry and the  
20 regulating bodies to negotiate a settlement which  
21 is beneficial to allergic people. The American  
22 College and American Academy support what is good  
23 for people but we have particular interest in the  
24 poor and the indigent who, we feel, will be harmed  
25 by this action. It would certainly be interesting

1 to know what Hubert Humphrey would say about these  
2 hearings but, you know, I don't think he would  
3 support it. Thank you.

4 DR. BRASS: Thank you. Our next speaker  
5 is Dr. Kaliner.

6 DR. KALINER: Panel members, I am Mike  
7 Kaliner. I am the Medical Director for the  
8 Institute for Asthma and Allergy here, in  
9 Washington, and former Chief of Allergy at the NIH,  
10 former President of the Academy of Allergy, and  
11 currently Vice President of the World Allergy  
12 Organization.

13 I have some conflicts that I would like to  
14 mention. I consulted with, advised and lectured  
15 for all three companies, in addition the companies  
16 that make OTC antihistamines currently available.  
17 My Institute does research with every company that  
18 makes allergy and asthma products. I am a  
19 preferred provider, at least I was until today,  
20 with the local Blue Cross/Blue Shield --

21 [Laughter]

22 -- and by their reckoning, I am their  
23 number one provider in the Washington, D.C. area.  
24 At least I was.

25 Panel members, you are being asked to



1 consider an extremely complex issue of whether to  
2 recommend that safe and effective medications, used  
3 for the treatment of allergic rhinitis, be switched  
4 to OTC status against the wishes or without the  
5 compliance of the manufacturers. This issue has  
6 been precipitated by desires of WellPoint Insurance  
7 Company to switch the cost of providing these  
8 medications from their pocket to the pockets of  
9 their members. I am not going to address the cost  
10 of such a switch and who will bear these costs, as  
11 others have, and will continue to do so.

12 I want to take a different slant. I want  
13 to address the position that this petition and the  
14 FDA's decision to address it have placed you. I  
15 have been close to being on your panel on a number  
16 of occasions.

17 Over the years, the legislatively mandated  
18 patent protection laws have allowed pharmaceutical  
19 managements a period of time to market their  
20 successful products in the Rx only market in order  
21 to pay for the research and development of new  
22 products. That revenue stream from products in the  
23 Rx market differs from that in the OTC market, and  
24 many ethical pharmaceutical companies are not  
25 equipped to market in the OTC environment, and some

1 of the companies we are talking about today cannot  
2 do that kind of marketing. Thus, forcing an OTC  
3 switch might materially affect the revenue of these  
4 companies.

5           Moreover, there is another predictable  
6 outcome from forcing an OTC switch which really  
7 concerns me. Let me ask if a company develops a  
8 safe and effective product in an area where  
9 reasonable diagnosis can be made by an educated  
10 patient, does that mean it should automatically go  
11 OTC? Does that ruling apply to all products used  
12 to treat this disease? At what point will you  
13 determine that a product should be forced OTC?  
14 Will you automatically review all products,  
15 including the dozens of safe and effective sedating  
16 antihistamines, decongestants, combination tablets,  
17 mucosolvents and anticholinergic products  
18 currently sold for the treatment of allergic  
19 rhinitis by prescription only, or will you limit  
20 your ruling today to just the top few products?

21           How will you determine when and by whom  
22 these products should be reviewed? What about new  
23 applications and new approvals? Will you give them  
24 an exclusive occupancy of the Rx only market by  
25 excluding the other products that you shifted to

1 OTC? What about topical nasal corticosteroids?

2 I believe you have to be even-handed in  
3 these deliberations and decisions, and anything you  
4 decide has to apply to the whole field and not just  
5 selected products.

6 I also ask you to look at this from the  
7 industry's perspective. If a company anticipated  
8 that safe and effective products in an area like  
9 allergy will face limited time, protected time in  
10 the prescription only marketplace, then why would  
11 companies continue to develop such products? I  
12 believe that they would stop development of allergy  
13 products immediately and there would be no future  
14 products developed in this area until there was  
15 additional legislative protection.

16 In fact, I have concerns about the panel  
17 deciding this issue, which I think infringes on  
18 companies' rights, and this is more a legislative  
19 than a regulatory area. Notwithstanding, forcing  
20 companies to move their prescription products to  
21 OTC against their will, will establish a powerful  
22 precedent which could have enormous effects on the  
23 future of the development of all prescription  
24 products. It is one thing when a company petitions  
25 you to allow a safe and effective product at

1 appropriate doses to go OTC, but it is quite  
2 another for you to force them to abort the revenue  
3 stream of an effective product prematurely.

4 In my opinion, this ruling will cause  
5 enormous losses in their revenue. If a U.S.  
6 government ruling costs these companies money, is  
7 there compensation available? Would that  
8 compensation come from the FDA budget?

9 In summary, allow me to ask are you  
10 prepared to create havoc in the patent protection  
11 of pharmaceutical products? Are you able to  
12 determine which products come under scrutiny for  
13 OTC switch? When should these products be reviewed  
14 and by whom? Are you prepared to stop new product  
15 development in fields like allergy, and are you  
16 prepared to compensate these companies for the loss  
17 of revenue?

18 If I were in your seat, I would avoid this  
19 issue entirely and recluse myself from any  
20 decision. In my opinion, this is an inappropriate  
21 use of your time and forces you into a  
22 decision-making process which might have huge  
23 consequences, far beyond the regulatory roles for  
24 which you all volunteered.

25 In my opinion, the petition by WellPoint

1 is flawed for many reasons but the most critical  
2 aspect of this issue is the consequences of this  
3 ruling and its effect on new drug development. As  
4 an allergist, I look to these companies to develop  
5 new and more effective products for my patients.  
6 If you continue this review and rule in favor of  
7 WellPoint you might just have stopped new product  
8 development in allergy forever. I hope that you  
9 take my advice, reject the petition and avoid  
10 making any ruling on this issue. Thank you.

11 DR. BRASS: Thank you. Our next speaker  
12 is Ms Nancy Sander.

13 **Patient Advocacy**

14 MS. SANDER: Thank you. It is a great  
15 pleasure to be here. As President of the Allergy  
16 and Asthma Network Mothers of Asthmatics, a  
17 non-profit education and advocacy organization  
18 dedicated to eliminating death due to asthma and to  
19 allergies, thank you for this opportunity to oppose  
20 OTC status for non-sedating antihistamines.

21 Since 1985, AANMA has enjoyed excellent  
22 working relationships, and received educational and  
23 unrestricted grants from numerous research-based  
24 pharmaceutical and device manufacturers. During  
25 2001, we did receive contributions from

1 manufacturers of medications in question, in  
2 combination totaling less than 50,000 dollars.

3           Neither AANMA nor myself own any stock or  
4 enjoy any financial interest in companies  
5 represented in this issue. AANMA pays my salary  
6 and I have received and accepted no offers for  
7 expenses or opinions related to this subject. I  
8 stand before you representing the best interests of  
9 more than fifty million consumers affected by  
10 allergies and asthma. I also stand before you as  
11 an employer with the best health insurance that she  
12 could find for her employees, which is Blue  
13 Cross/Blue Shield CareFirst. I also am a person  
14 who enjoys excellent care through this program.

15           AANMA opposes OTC status for non-sedating  
16 antihistamines. Asthma and allergies are serious,  
17 potentially life-threatening conditions, as  
18 previous speakers have said. However, the average  
19 consumer does not have the knowledge or possess the  
20 necessary skills to safely self-diagnose and treat  
21 allergy symptoms without medical guidance. At  
22 best, their efforts are experimental, and you don't  
23 have to go far to find evidence for this. Just go  
24 to your local grocery store and stand in the cold  
25 and cough aisles of the grocery store and you will

1 witness consumers seeking medical advice from  
2 stocking clerks as to which medications they should  
3 take home.

4 But when allergy symptoms drive the  
5 patient to the doctor instead of the grocery store,  
6 the physician examines the patient, takes a medical  
7 history and, if needed, conducts diagnostic tests,  
8 taking all this information into consideration for  
9 treatment strategies developed for that person, and  
10 they may even get to spend some time with a nurse  
11 educator.

12 Their treatment plan will allow them to  
13 take the medication that provides the greatest  
14 results with minimal or no medication side effects.  
15 That medication is not necessarily always a  
16 non-sedating antihistamine. In fact, the patient  
17 may receive a prescription for one or more topical  
18 nasal corticosteroid sprays to reduce inflammation  
19 and congestion in the nose. The physician may also  
20 prescribe a simple recipe for a saline nasal wash,  
21 a medication-free and inexpensive way of removing  
22 the offending allergens from the nasal passages.  
23 Furthermore, it is at this appointment where  
24 patients learn, like me, how to prevent episodes of  
25 allergies from returning. That means I am at work

1 and my kids are at school.

2           If only managing asthma and allergies were  
3 as simple as popping sugar-coated, non-sedating  
4 antihistamines available OTC, but it is not.  
5 Chronic allergies take many forms. Some are more  
6 subtle than others. But in all cases consumer  
7 ignorance is not bliss. Tell me how even the most  
8 intelligent adult differentiates between a sinus  
9 infection and allergy, or a cold and asthma, or a  
10 cough due to allergy, asthma, sinusitis or the flu.  
11 And, if we can't accurately self-diagnose, where do  
12 we begin to self-medicate?

13           As a patient advocate and a mom of four  
14 great kids, three of whom have allergies and three  
15 of whom have asthma, I am concerned that the people  
16 whom I trust to understand these issues, my health  
17 insurers, are seeking OTC status for chemically  
18 distinct non-sedating antihistamines as if they  
19 were candy. Is this trust ill placed?

20           Health insurers say non-sedating  
21 antihistamines are safe, and I agree, but only when  
22 used as prescribed by a physician. While it is  
23 true that in Third World countries I can purchase  
24 just about any asthma, allergy, high blood pressure  
25 or other kind of medication over-the-counter, those